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Result
No.
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Maximum DB
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Perfect score:
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length: 2000000000
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1: /cgn2_6/ptodata/2,
2: /cgn2_6/ptodata/2,
3: /cgn2_6/ptodata/2,
4: /cgn2_6/ptodata/2,
5: /cgn2_6/ptodata/2,
6: /cgn2_6/ptodata/2,
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Match
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Gapop 10.0 , Gapext 0.5
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                                                    Maximum Match 100%
Listing first 45 summaries
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/cgn2_6/ptodata/2/1aa/5B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6A_COMB.pep:*
/cgn2_6/ptodata/2/1aa/6B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/B_COMB.pep:*
/cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep:*
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US-08-460-269C-6
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US-09-010-928B-2
US-09-010-928B-3
US-09-010-928B-7
US-09-010-928B-7
US-09-010-928B-7
US-09-010-928B-7
US-09-010-928B-7
US-09-108-537-8
US-09-476-59B-8
US-09-430-854-8
US-09-430-854-8
US-09-430-854-9
US-08-476-509B-2
PCT-US94-01149-2
PCT-US94-01149-2
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PCT-US94-01149-2
PCT-US94-01149-1
US-08-868-968C-227
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53	53.5	53.5	53.5	54	54	56	56	56	56	56	56	56.5	56.5	56.5	56.5	56.5
21.6	21.8	21.8	21.8	22.0	22.0	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.1	23.1	23.1	23.1
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US-09-247-806-2	US-08-646-715-16	US-08-188-582-16	US-08-556-978B-59	US-08-317-844B-4	US-08-425-069-4	US-09-247-806-10	US-08-556-978B-61	US-09-232-468A-22	US-07-918-023-2	US-09-247-806-9	US-08-556-978B-60	US-09-702-572-6	US-09-448-076-6	US-09-276-400-6	US-09-004-422-50	US-08-630-918-50
Sequence 2, Appli	Sequence 16, Appl		59,	Sequence 4, Appli	-	Sequence 10, Appl	61		ผ	؈	60	Sequence 6, Appli	Sequence 6, Appli	Sequence 6, Appli	Sequence 50, Appl	•

ALIGNMENTS

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; molecule Type: linear; Molecule Type: protein; SEQUENCE DESCRIPTION: SEQ ID NO: US-08-460-269C-4
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US-08-460-269C-4
Query Match
Best Local Similarity
Matches 46; Conserv
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Patent No. 6197548
GENERAL INFORMATION:
APPLICANT: CLARE, JEFFREY J.
                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER: I
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 243-6333
TELEFAX: (703) 243-6410
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Release #1.0, ve CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,269C FILLING DATE: 02-Jun-1995
ATTORNEY/AGENT INFORMATION:
NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan,
STREET: 2200 Clarendon Blvd., Suite 1400
CITY: ARLINGTON
STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ROMANOS, MICHAEL A.
TITLE OF INVENTION: EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                               TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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100.0%;
llarity 100.0%;
Conservative . C
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Score 245; DB 4;
Pred. No. 3.4e-23;
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                                    Length 911;
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TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO:
US-08-460-269C-6
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US-08-460-269C-2
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                                                                                                                                                                                                                                                                                            Sequence 2, Application US/08460269C Patent No. 6197548 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (703) 243-6
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                        NUMBER OF SEQUENCES: 17
CORRESCEDE ADDRESS:
ADDRESSEE Willen, White, Zelano & Branigan,
STREET: 2200 Clarendon Blvd., Suite 1400
CITY: ARLINGTON
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                              TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                             APPLICANT: CLARE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 243-6333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
STREET: 2200 Clarendon Blvd., Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ROMANOS, TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: CLARE, JEFFREY J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46;
                            COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                               COUNTRY: USA
ZIP: 22201
                                                                                                                                 STATE: VA
               SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: ARLINGTON STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 922 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Lebovitz, Richard M. REGISTRATION NUMBER: 37,067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                             JEFFREY J.
                                                                                                                                                                                                                                             MICHAEL A. EXPRESSION
                                                                                                                                                                                                                               YEAST
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Pred. No. 1.4
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1.4e-21;
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                                                                         Matches
                                                                                   Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                 CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28977
                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Lewis, Randolph V
APPLICANT: Hayashi, Cheryl Y
TITLE OF INVENTION: EXTREMELY ELASTIC
TITLE OF INVENTION: CODING THEREFOR
     248 GGAGPGGAGPGGAGP---GGYG 271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE:
                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0
                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 8110 GATEHO
CITY: FALLS CHURCH
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NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
                                   GDAPAGGAVPGGAVPGGFGPLLDGWYG 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: protein SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                    amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/460,269C FILING DATE: 02-Jun-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E: BIRCH, STEWART,
8110 GATEHOUSE RD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ELEPHONE: (703)
                                                                                                                                                                                                745 amino acids
                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              UNITED STATES OF AMERICA
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                                                                                                                                                                       linear
                                                                                                                                                    protein
                                                                                                                                                                                                                                                                                                                                22-JAN-1998
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73.2%;
                                                                                     30.4%;
                                                                                                                                                                                                                                                                                                                                                                                Release #1.0, Version
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                                                                                 Score 74.5; DB Pred. No. 0.14;
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Pred. No. 1e-17;
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                                                                                                                                                                                                                                                                             Sequence 4, Application US/09010928B
Patent No. 5994099
GENERAL INFORMATION:
APPLICANT: Lewis, Randolph V
APPLICANT: Hewis, Randolph V
APPLICANT: Hayashi, Cheryl V
TITLE OF INVENTION: EXTREMELY ELASTIC SPIDER SILK PROTEIN AND
TITLE OF INVENTION: CODING THEREFOR
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                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: HAM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28977
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy
                           SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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APPLICANT: Hayashi, Cheryl Y
TITLE OF INVENTION: EXTREMELY ELASTIC SPIDER SILK PROTEIN AND
TITLE OF INVENTION: CODING THEREFOR
                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            374 GGAGPGGAGPGGAGP---GGYG 397
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CITY: FALLS CHURCH
STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 22-JAN CLASSIFICATION: 435
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STATE: VIRGINIA
FILING DATE:
                  APPLICATION NUMBER:
                                                                                                                                                          COUNTRY:
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8110 GATEHOUSE RD.
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8110 GATEHOUSE RD.
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N: 435
22-JAN-1998
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Pred. No. 0
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SUITE 500E
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SUITE 500E
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                                                        Matches
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Best Local :
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                                                                                                                         MOLECULE TYPE: protein
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ATTORNEY/AGENT INFORMATION:
NAME: MUZPHy JI., Gerald M
REGISTRATION NUMBER: 28977
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                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Lewis, Randolph V
APPLICANT: Hayashi, Cheryl Y
TITLE OF INVENTION: EXTREMELY ELASTIC
TITLE OF INVENTION: CODING THEREFOR
                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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                          13 GGAVPGGAVPGGFGP 27
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                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,
                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                          NAME: Murphy Jr., Gerald REGISTRATION NUMBER: 2897
                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: VIRGINIA
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                                                                  Score 63; I
Pred. No. 0.
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SUITE 500E
                                                      Mismatches
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RESULT 8 US-09-010-928B-7

Sequence 7, Application US/09010928B Patent No. 5994099

GENERAL INFORMATION:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
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                                                         SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/845,998
                                                                                                                                    MEDIUM TYPE: Floppy
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             CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
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NUMBER OF SEQUENCES:
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TITLE OF INVENTION: EXTREMELY ELASTIC SPIDER SILK PROTEIN AND DNA
                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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REGISTRATION NUMBER: 28977
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ZIP: 02210
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Van Amsterdam, John R.
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Hayashi, Cheryl Y
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66.78;
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SUITE 500E
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US-09-206-537-8
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   Matches
                            Query Match
                                                                                                                                             TELEFAX: (617)720-2441 INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: LEUKEMIA ASSOCIATED GENES NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
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LENGTH: 420 amino acid
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                                                                                                                                 SEQUENCE CHARACTERISTICS
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PRIOR APPLICATION DATA:
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                                                                      MOLECULE TYPE: protein
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               Local Similarity
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ZIP: 02210
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                                                                                                                                                                                                                    NAME: Van Amsterdam, John R. REGISTRATION NUMBER: 40,212
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                                                                                                                LENGTH:
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amino acid
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Boon, Thierry
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 Conservative
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Pred. No.
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             Score 59; DB 4; Length 420; Pred. No. 7.1;
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RESULT 11 US-09-430-854-8

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RESULT 12
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GENERAL INFORMATION:
                                                                                                                            GENERAL INFORMATION: APPLICANT: SUDOL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                         APPLICANT: HENRY, CHEN
TITLE OF INVENTION: A SH2 DOMAIN ASSOCIATED PROTEIN, A
TITLE OF INVENTION: SIGNALLING DOMAIN THERRIN, NUCLEIC ACIDS ENCODING THE
TITLE OF INVENTION: PROTEIN AND THE DOMAIN, AND DIAGNOSTIC AND THERAPEUTIC USES
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NAME: Van Amsterdam, John R.
REGISTRATION NUMBER: 40,212
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MEDIUM TYPE: Floppy
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APPLICANT:
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APPLICATION NUMBER:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 420 amino acids
TYPE: amino acid
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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PEER, BORK
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Pred. No. 7
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ORGANISM: MOUSE
IMMEDIATE SOURCE:
TIONE: YAP
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             COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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ORIGINAL SOURCE:
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CORRESPONDENCE ADDRESS:
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APPLICATION NUMBER: US
FILING DATE: 01-DEC-19
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NAME: Jackson Esq., Davi
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    APPLICATION NUMBER:
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Hackensack
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US/08/476,509B
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Pred. No. 8.1;
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                            Version #1.30
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Best Local Similarity 4...
14; Conservative
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                             INFORMATION FOR SEQ ID NO: 2:
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TELEX: 133521
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1711 amino aci
                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: KONSKI, ANTOINETTE F.
REGISTRATION NUMBER: 34,202
                                                                                                                                                                                                        SOFTWARE: PatentIn Rel
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MEDIUM TYPE: Floppy disk
                                                                      REFERENCE/DOCKET NUMBER: 20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
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TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
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ZIP: 943
                                                        TELEFAX:
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CLASSIFICATION:
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OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                          APPLICATION NUMBER:
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                                                       (415) 494-0792
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Best Local Similarity
Matches 19; Conserv
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                             TELEPHONE: 215-270-5096
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APPLICATION NUMBER: US 108,914
FILING DATE: 18-AUG-1993
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APPLICATION NUMBER:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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                                                                               REGISTRATION NUMBER:
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30-AUG-1991
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AAE16187
ID AAE1 X P X S X X X X X E AAE16187 standard; peptide; 46 WPI; 2002-097639/13 Guiso-maclouf N, WO200190143-A2 Bordetella bronchiseptica. Pertactin; PRN; outer membrane protein; vaccine; Bordetella infection; therapy; antibiotic; antibacterial; region I. B. bronchiseptica strain I-2 pertactin outer membrane protein region I. (INSP) INST PASTEUR. 25-MAY-2000; 2000US-206969P. 23-MAY-2001; 2001WO-EP06457. 29-NOV-2001. 26-MAR-2002 (first entry) AAE16187; Boursaux-eude 3 ü

Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods

or

8x2222222222222

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Query Match
Best Local
                                               (WELL ) WELLCOME FOUNDATION
                                                                          02-APR-1990;
                                                                                                     28-MAR-1991;
                                                                                                                               17-0CT-1991
                                                                                                                                                          WO9115571-A
                                                                                                                                                                                                  Peptide
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                                                                                                                                                                                                                                                                                                                                                              Peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological fluids, such as human or other animal body fluids, including human sera, and to determine the concentration of Ab in those materials. Thus the antigens can be used for qualitative or quantitative determination of Bordetella in a material. The present sequence is B. bronchiseptica pertactin outer membrane protein region I.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAR14320;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QRATIRRGDAPAGGAVPGGAVPGGFGPLLLDGWYGVDVSDSTVDLAQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QRATIRRGDAPAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 46
                      JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                      Romanos MA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     bronchiseptica.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pichia; B. pertussis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46 AA;
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587..589
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599..601
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Pred. No. 2.
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2.9e-22;
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Claim 1; Fig 1; 28pp;
                      DNA encoding a Bordetella bronchiseptica protein - used obtaining vaccines for preventing respiratory, diseases, atrophic rhinitis in pigs % \left( 1\right) =\left\{ 1\right\} 
                                                                                                                       Charles
                                                                                N-PSDB;
                                                                                         WPI; 1992-366258/44.
                                                                                                                                                                          27-MAR-1991;
                                                                                                                                                                                                    27-MAR-1992;
                                                                                                                                                                                                                               15-OCT-1992.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B. bronchiseptica;
atrophic rhinitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pichia microorganisms are transformed for the expression of pertactin antigens. DNA sequence used are represented in AAQ14319-20 encoding the B. bronchiseptica P.68 and B. parapertussis P.70 antigen respectively or the B. pertussis P.9 encoding sequence described by I.G. Charles et al. Proc. Natl. Acad. Sci. USA, Vol. 80:3554-3448
                                                                                                                                               (WELL ) WELLCOME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pichia microorganism transformants - for production of Bordetella pertactin antigens for whooping cough vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
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N-PSDB; AAQ14319.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   46;
                                                                                AAQ34566.
                                                                                                                       IG;
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Similarity 100.0%;
46; Conservative 0
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                                                                                                                                                FOUND LTD
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                                                                                                                                                                                                                                                                                                                                    'label=
                                                                                                                                                                                                                                                                                                                                                                                          /label= P.68
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                                                                                                                                                                                                                                                                                                          label= RGD_tripeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P.68; outer membrane protein; alternative cleavage.
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English
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piglet;

probe;

AAR14320

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Matches

Score 245; DB 12; Pred. No. 5.8e-21; Mismatches

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The present invention relates to Bordetella bronchiseptica pertactin (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological fluids, such as human or other animal body fluids, including human sera, and to determine the concentration of Ab in those materials. Thus the antigens can be used for qualitative or quantitative determination of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The sequence given is the P.94 antigen from B. bronchiseptica. The P.68 antigen is formed by alternative cleavage of this protein. P.68 is an outer membrane protein with a molecular weight of 68 kD which is associated with protection of pilets against atrophic rhinitis. The DNA sequence encoding these proteins was derived by standard recombinant DNA techniques using P.68 probes to isolate the entire P.94 sequence.
                                                                                                                                                                                                  Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                                       Guiso-maclouf N,
                                                                                                                                                                                                                                                                                                                                   (INSP)
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B; AAD26440.
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559..610
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Pred. No. 5.8e-
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QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ

51

Best Loc Matches Query Match

Local

46; Conser

Conservative

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Score 232.5; DB Pred. No. 1e-20; D; Mismatches

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Length

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Sequence

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Best Local
                                                                                                    (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological
                        fluids, such as human or other animal body fluids, including human set and to determine the concentration of Ab in those materials. Thus the antigens can be used for qualitative or quantitative determination of Bordetella in a material. The present sequence is B. bronchiseptica pertactin outer membrane protein region I.
                                                                                                                                                                                                                                                                         Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                          The present invention relates to Bordetella bronchiseptica pertacting
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                                                                                                                                                                                                                                              Claim 26; Fig 1b; 47pp; English.
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Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antibacterial;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pertactin outer membrane protein region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 245; D
Pred. No. 5.8
); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; vaccine;
rial; region I.
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RESULT 6
AAR14321
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AAR143
                                                                   Pichia microorganisms are transformed for the expression of pertactin antigens. DNA sequence used are represented in AAQ14319-20 encoding the B. bronchiseptica P.68 and B. parapertussis P.70 antigen respectively or the B. pertussis P.69 encoding sequence described by I.G. Charles et al. Proc. Natl. Acad. Sci. USA, Vol. 80:3554-3448
                                                                                                                                                                                                   Disclosure; Fig 1C; 38pp;
                                                                                                                                                                                                                                       Pichia microorganism transformants - for production of Bordetella pertactin antigens for whooping cough vacci
                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-APR-1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17-OCT-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-MAR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          W09115571-A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pertactin;
                                                                                                                                                                                                                                                                                                                                                                                                           (WELL ) WELLCOME FOUNDATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide
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                                          46 Xs
                                                                                                                                                                                                                                                                                                                            1991-325214/44.
                                                                                                                                                                                                                                                                                                                                                                    JJ,
                                                                                                                                                                                                                                                                                                           AAQ14320
                                        represent
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  922 AA;
                                                                                                                                                                                                                                                                                                                                                                  Romanos MA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pichia; B. pertussis; B.bronchiseptica;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         91WO-GB00487
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586
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                                        amino
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                                    acids missing in
                                                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                                                                                                                                                           LTD.
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                                                                                                                                                                                                                                       whooping cough vaccines
                                    the specification
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Sequence

Query Match

94.9%;

Score

232.

. 5 DВ

13;

Length 922;

Sequence

922

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RESULT 7
AAR25578
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Best Local Similarity
Matches 46; Conserv
                            contain an open reading frame encoding a 922 amino acid protein with calculated mol.wt. 95,177. This precursor protein ("P95") is processed in vivo to the P70 antigen of apparent mol. wt. 70,000 as determined by SDS-PAGE, but with actual mol.wt. 61AD. Antigenic fragments of the protein will be useful in developing an acellular vaccine against B.parapertussis. Preferred fragments include amino
                                                                                                    A cosmid library was constructed by transforming E.coli HB101 with recombinant cosmids prepared by partial digestion of B.parapertussis chromosomal DNA with Sau3A and cloning of 40-50kb fragments into the BamHI site of cosmid pHC79. The cosmids were screened with a 1.8kb ClaI fragment from the prn gene of B.pertussis. The insert from one positive colony, harbouring cosmid pBB811, was sequenced and found to
                                                                                                                                                                                                               Acellular vaccine for immunisation against whooping cough - comprises protein uncontaminated by B. para:pertussis components and capable of binding antibodies which bind native P70 antigen
                       vaccine against B.parapertussis.
acids Pro577 to Pro612 or Ala574
                                                                                                                                                                                            Claim 1; Fig 1; 20pp; English.
                                                                                                                                                                                                                                                                                                                                (WELL ) WELLCOME FOUND LTD
                                                                                                                                                                                                                                                                                                                                                         21-DEC-1990;
                                                                                                                                                                                                                                                                                                                                                                                 23-DEC-1991;
                                                                                                                                                                                                                                                                                                                                                                                                         09-JUL-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                 W09211292-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Whooping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bordetella parapertussis P95
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR25578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAR25578;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           254
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DB; AAQ26509.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cough;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     parapertussis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                       90GB-0027901
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note=
575..61
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712..7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 260..262
/note= "motif associated with cell-cell adhesion"
266..285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers 35..643
                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /label= P70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .612
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    "motif associated with cell-cell adhesion"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "contains 9 direct repeats of Pro-Gln-Pro"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "contains 5 direct,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P95 precursor protein; vaccination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antigen precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 232.5; DB 1:
Pred. No. 1.8e-19;
0; Mismatches 0
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                       Pro612.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tandem
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Best Local Similarity 90.2 Matches 46; Conservative

90.2%;

Pred. No. 1.8e-19;
0; Mismatches 0;

Indels

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                                                                                                           RESULT 8
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                                                     Matches
                                                                               Query Match
                                                                                                                                         The present invention relates to Bordetella bronchiseptica pertactin (outer membrane protein) or their fragments. Perfactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological fluids, such as human or other animal cells, as well as biological and to determine the concentration of Ab in those materials. Thus the Bordetella in a material. The present sequence is B. parapertussis
                                                                                                                                                                                                                                                                                                                                                 Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                           Sequence
                                                                                                                              BOTGETELLA IN A MATERIAL. The present sequence is pertactin outer membrane protein, p.70.
                                                                                                                                                                                                                                                                                                                       Disclosure; Page 34; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Guiso-maclouf N, Boursaux-eude
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bordetella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAE16185 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     therapy; antibiotic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pertactin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bordetella
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    254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 QRATIRRGDAPA-----GGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ
                                                                    Local
              1 QRATIRRGDAPA-----GGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 46
QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 304
                                                                                                                                                                                                                                                                                                                                                                                                                     2002-097639/13
                                                                                                                                                                                                                                                                                                                                                                                                          AAD26442
                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           parapertussis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRN;
                                                                                                          922 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          parapertussis pertactin outer membrane protein, p.70.
                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PASTEUR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                outer membrane protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
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                                                                 94.9%;
90.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antibacterial;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Pertactin region II"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Pertactin region
                                                   Score 232.5;
Pred. No. 1.8e
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vaccine;
                                                                  ; DB 23;
.8e-19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bordetella infection;
                                                    Indels
                                                                             Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    46
                                                                            922;
                                                    5
                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 10
AAE16188
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                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Thehes 42; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                         and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological fluids, such as human or other animal body fluids, including human sera, and to determine the concentration of Ab in those materials. Thus the
                                                                                                                                                                                                                                                                                                                                              antigens can be used for qualitative or quantitative determination . Bordetella in a material. The present sequence is B. bronchiseptica pertactin outer membrane protein region I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in
                                                           26-MAR-2002
                                                                                         AAE16188;
                                                                                                                     AAE16188 standard;
                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to Bordetella bronchiseptica pertactin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 1b; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Guiso-maclouf N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pertactin; PRN; oute therapy; antibiotic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                B. bronchiseptica strain prn4 pertactin outer membrane protein region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAE16192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAE16192 standard; peptide; 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-MAY-2000; 2000US-206969F
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                                                                                                                                                                                             1 QRATIRRGDAPAGGAVPGGAVPGGFGPGFGPVLDGWYGVDVSGSSVELAQ
                                                                                                                                                                                                            1 QRATIRRGDAPAGGAVPGGAV-----PGGFGPLLDGWYGVDVSDSTVDLAQ 46
                                                                                                                                                                                                                                                                                                                    51
                                                                                                                                                                                                                                                          Conservative
                                                        (first entry)
                                                                                                                                                                                                                                                                                                                    AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     outer membrane protein; vaccine; Bordetella infection;
otic; antibacterial; region I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Boursaux-eude
                                                                                                                   peptide;
                                                                                                                                                                                                                                                                     87.68;
82.48;
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                                                                                                                                                                                                                                                                       Score 214.5;
Pred. No. 1.
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                                                                                                                                                                                                                                                                       ..4e-18;
                                                                                                                                                                                                                                                                                    DB 23;
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                                                                                                                                                                                                                                                                                    Length 51;
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                                                                                                                                                                                                                                                                                                                                                                            of.
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Pertactin;

PRN; outer membrane protein;

vaccine;

Bordetella infection;

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B. bronchiseptica strain I-3 pertactin outer membrane protein region I.

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RESULT 11
AAE16189
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Best Local S
Matches 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to Bordetella bronchiseptica pertactin (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological fluids, such as human or other animal cells, as well as biological and to determine the concentration of Ab in those materials. Thus the antigens can be used for qualitative or quantitative determination of Bordetella in a material. The present sequence is B. bronchiseptica
                                                                                                                                                                                                              B. bronchiseptica strain prn1 pertactin outer membrane protein region
                          25-MAY-2000;
                                                                                                                                            Bordetella bronchiseptica
                                                                                                                                                                                                                                                   26-MAR-2002
(INSP)
                                                       23-MAY-2001;
                                                                                     29-NOV-2001
                                                                                                                 WO200190143-A2
                                                                                                                                                                           cherapy;
                                                                                                                                                                                            Pertactin;
                                                                                                                                                                                                                                                                                                             AAE16189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (INSP ) INST PASTEUR.
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                                                                                                                                                                                                                                                                                                                                                                                             1 QRATIRRGDAPAGGAVPGGAV-------PGGFGPLLDGWYGVDVSDSTVDLAQ 46
                                                                                                                                                                                                                                                                                                                                                                              26; Fig 1b;
INST PASTEUR
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                           antibiotic;
                                                                                                                                                                                                                                                                                                          standard;
                                                                                                                                                                                      PRN; outer membrane protein; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    56
                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                           2000US-206969P
                                                       2001WO-EP06457.
                                                                                                                                                                                                                                                   (first entry)
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                                                                                                                                                                                                                                                                                                          peptide;
                                                                                                                                                                          antibacterial;
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75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 212; DB Pred. No. 3.1e 2; Mismatches
                                                                                                                                                                                                                                                                                                            56
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 23;
3.1e-18;
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                                                                                                                                                                                    Bordetella infection;
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The present invention (outer membrane protein

ention relates to Bordetella bronchiseptica pertactin protein) or their fragments. Pertactin (PRN) is used

as

Disclosure;

Fig 1b;

47pp; English

Polypeptides pertactin in

treating

infections

containing polymorphisms of the repeated regions of Bordetella species, useful in immunogenic compositions ections caused by Bordetella and in diagnostic methods

for

WPI;

2002-097639/13.

Guiso-maclouf N,

Boursaux-eude

(INSP) INST PASTEUR

25-MAY-2000;

2000US-206969P

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δÃ
                                    Query Match
Best Local Similarity
Matches 42; Conser
                                                                                                                                                       (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal cells, as well as biological fluids, such as human or other animal body fluids, including human sera, and to determine the concentration of ab in those materials. Thus the bordetella in a material is a material. The present sequence is B. bronchiseptica pertactin notter membrane rectain rectant.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                              Sequence
                                                                                                                                                   pertactin
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                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Fig 1b;
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                                                                                                                                               outer membrane protein region
                                                                                                              56 AA;
                                    Conservative
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75.0%;
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Pred.
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heir fragments. Pertactin (PRN)
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                                                  212; DB 23;
No. 3.1e-18;
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                                  Indels
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                               Gaps
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AAE16191
닭
                                                                                                                                                                               Bordetella bronchiseptica.
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                                                                                                                                 23-MAY-2001; 2001WO-EP06457
                                                                                                                                                               WO200190143-A2
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                                                                                                                                                29-NOV-2001.
                                                                                                                                                                                                                                    26-MAR-2002
                                                                                                                                                                                             therapy; antibiotic; antibacterial; region
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                                                                                                                                                                                                                                                                                                     QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPGGFGPVLDGWYGVDVSGSSVELAQ 56
                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                 peptide;
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                                                                                                                                                                                                   Bordetella infection;
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RESULT 13
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The present invention relates to Bordetella bronchiseptica pertactin (Outer membrane protein) or their fragments, Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal tissue and human or other animal cells, as well as biological
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Guiso-maclouf N,
                                                                                                                                                                                                                                                            Disclosure; Page 31; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-MAY-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (INSP ) INST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Region
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568..60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Boursaux-eude
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75.0%;
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.1e-18;
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RESULT 14
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Best Local
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                  pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infections diseases of mammals including diphtheria, tetanus, polic and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is B. pertussis prn1 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              antigens can be used for qualitative or quantitative determination Bordetella in a material. The present sequence is B. pertussis pertactin outer membrane protein, p.69.
                                                                                                                                                                                                                                        WPI;
                                                                                                                                    The invention relates to polypeptides derived from Bordetella
                                                                                                                                                                                  New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                                                                                                                                                                                                                                                             Region
                                                                                                                                                              Claim 11; Page 35-38;
                                                                                                                                                                                                                                                                                                                 30-JUN-2000; 2000EP-0202309
                                                                                                                                                                                                                                                                                                                                                                   03-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bordetella
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75.0%;
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                                                                                                                                                            52pp; English.
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Haemophilus influenza b infection; t
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ination of
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                                                                                                                                    pertussis
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                                                                                            polio
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Length 910;

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                                                                                                                  Query Match
Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                            The present invention relates to Bordetella bronchiseptica pertactin (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal cells, as well as biological and to determine the concentration of Ab in those materials. Thus the antigens can be used for qualitative or quantitative determination of Bordetella in a material. The present sequence is B. bronchiseptica
                                                                                                                                                                             Sequence
                                                                                                                                                                                                       pertactin outer membrane protein region I.
                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; Fig 1b; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                       Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Guiso-maclouf N, Boursaux-eude C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25-MAY-2000; 2000US-206969P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pertactin; PRN; outer membrane protein; vaccine; Bordetella infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B. bronchiseptica strain prn2 pertactin outer membrane protein region I.
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                                                                          QRATIRRGDAPAGGAVPGGAVPGGFGPGGFGPGGFGPGFGPVLDGWYGVDVSGSSVELA 60
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Search completed: March 17, 2003, 11:37:07 Job time: 61.4314 secs

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Sequence 9, Appli
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Sequence 12, Appl
Sequence 11, Appl
Sequence 6, Appli
Sequence 194, Appli
Sequence 3, Appli
Sequence 2, Appli
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Sequence 15, Appl
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Sequence 236, App	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	e 236,	236,	e 236,	236,	e 236,	e 236,	e 236,	e 62,	e 236,	e 62,	236,	236,	Sequence 62, Appl

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RESULT 2
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; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-8
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PUBLICATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
APPLICANT: NICOLE
APPLICANT: NUCENTION: POLYPEPTIDES C
                                                                                                      Sequence 4, Application US/09855754 Publication No. US20020192237A1
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SOFTWARE: PatentIn Ver.
SEQ ID NO 8
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYMEPTIDES CONTAINING POLYMORPHISMS OF THE R
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND
TITLE OF INVENTION: IMMUNOSENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                                                                                                                                                                        Local Similarity
                                                                                                                                                                                                                                      46;
                                                                                                                                                                                                                                                                                                                                100.0%; Score 245; DB 9; ilarity 100.0%; Pred. No. 2.8e-21; Conservative 0; Mismatches 0;
              CONTAINING POLYMORPHISMS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   USE IN DIAGNOSTICS, AND IN
                                                                                                                                                                                                                                                                                                                                                                           Length 46;
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US-09-855-754-7
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; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-4
                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                 Publication No.
                                                                                                                                                                                       Sequence 6,
                                                                                                                                                                                                                                                                                                                                                                              Best
                   APPLICANT: BOURSAUX EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BRONCHISETICA, THEIR USE IN DIAGNOSTICS, AND IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 7
LENGTH: 51
                                                                                                                                                                                                                                                                                                                                                                Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: BROWCHALL. - COMPOSITE OF INVENTION: IMMUNOGENIC COMPOSITE FILE REFERENCE: 03495-0206-00000 CURRENT APPLICATION NUMBER: US/09/855,754 CURRENT APPLICATION NUMBER: US/09/855,754
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APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-05-
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
                 TITLE OF INVENTION:
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NUMBER OF SEQ ID NOS: 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
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REFERENCE: 034
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                                                                                                                                                                                     Application US/09855754
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           IMMUNOGENIC COMPOSITIONS
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                                                                                                                                                                                                                                                                                                                                                                            94.98;
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Pred. No. 5.8e-20;
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Pred. No. 7.
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Query Match
Best Local Similarity
Thehes 43; Conserve
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                                                                                                           TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA FITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICA STITLE OF INVENTION: IMMUNOGENIC COMPONENTS OF THE PROPERSOR.
                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                   Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Ver. SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL
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Best Local
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                                                        TITLE OF INVENTION: BRONCHISEPTICA, THEIR USITITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000 CURRENT APPLICATION NUMBER: US/09/855,754 CURRENT FILING DATE: 2001-09-10
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CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
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TITLE OF INVENTION: POLYPEPFIDES CONTAINING POLYMORPHISMS OF THE F
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, ANT
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
                 PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
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CURRENT FILING DATE: 2001-09-10
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NUMBER OF SEQ ID NOS: 24
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No. US20020192237A1
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Pred. No. 4.8e-17;
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Best Local Similarity
Thes 42; Conserv
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                                                                                                        SOFTWARE: PatentIn
SEQ ID NO 10
LENGTH: 56
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                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: BRONCHISEPT TITLE OF INVENTION: IMMUNOGENIC FILE REFERENCE: 03495-0206-00000
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SOFTWARE: PatentIn Ver. 2.1
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ORGANISM: Bordetella bronchiseptica
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lication No. US2002019
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Pred. No. 8.3e-18;
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Pred. No. 1.7e-17;
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US-09-855-754-12
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; Sequence 12, Application US/09855754
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Best Local
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Best Local Similarity
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TITLE OF INVENTION: POLYPEPFIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
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TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
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APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS (
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PER
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETEI
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOST:
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                SOFTWARE:
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                                                                                         ORGANISM: Bordetella
                                                                                                                TYPE: PRT
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MHER: 60/206,969
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Pred. No. 1.7e-17;
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Best Local Similarity

Conservative

Score 209.5; DB Pred. No. 3.6e-17 3; Mismatches

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Query Match

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US-10-078-770-194
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; ORGANISM: ELP[V5A2G3-90]
US-09-812-382-6
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                                                      SOFTWARE: Microsoft Office 97 SEQ ID NO 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 194, A. Publication No.
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Best Local Similarity
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 6
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Patent No. US20010034050A1
                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/153,534
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: 60/161,223
                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: CDNAS Encoding Polypeptides FILE REFERENCE: BB-1365 US NA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Famodu, Omolayo O. APPLICANT: Forge, Charlie APPLICANT: Miao, Guo-Hua
                                                                                           NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                   PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/078,770 CURRENT FILING DATE: 2002-02-19
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                                                                                                          PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/143,400 PRIOR FILING DATE: 1999-07-12
                                                                                                                                                                                                                                                                                                                                                                CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: 09/614,188
PRIOR FILING DATE: 2000-07-12
ORGANISM: Glycine max
                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/09/812,382 CURRENT FILING DATE: 2001-03-20
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TITLE OF INVENTION: Fusion Peptides Isolatable by Phase Transition
FILE REFERENCE: 4176-101
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                                                                                                                                              APPLICATION NUMBER: 60 FILING DATE: 1999-07-1
                                                                                                                                                                                                                      APPLICATION NUMBER: 60 FILING DATE: 1999-10-1
                                                                                                                           APPLICATION NUMBER: 60/143,409
                                                                                                                                                                                  FILING DATE: 1999-10-01
                                                                                                                                                                                                                                                          FILING DATE: 1999-10-22
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Pred. No.
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; ORGANISM: ELP[V5A2G3-10]
US-09-812-382-3
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 3
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                                                                                                                                                                                                                         TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191.078
PRIOR APPLICATION NUMBER: 60/191.078
PRIOR FILING DATE: 2000-03-21
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PRIOR APPLICATION NUMBER: 60/206,848
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CURRENT FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: US 60/190,659
PRIOR FILING DATE: 2000-03-20
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TITLE OF INVENTION: Fusion Peptides Isolatable by Phase Transition
FILE REFERENCE: 4176-101
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les 18; Conserv
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                                               APPLICATION NUMBER: 6
                                                                                                                                       APPLICATION NUMBER: 60/
                APPLICATION NUMBER: 60/269,308 FILING DATE: 2001-02-16
                                                                                    FILING DATE: 2000-11-27
                                                                                                                                                                                            FILING DATE: 2000-05-23
                                                                                                  APPLICATION NUMBER: 60/253,625
                                                                                                                       FILING DATE: 2000-10-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Haselbeck, Robert
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Zyskind, Judith W.
                                                                                                                                                                                                                                                                                                                                                                                   Carr, Grant J
                                                                                                                                                                                                                                                                                                                                                                                                      Trawick, John D.
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NOS:
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Pred. No.
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Pred. No.
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Sequence 2, Application US/1009619
Patent No. US20020168384A1
GENERAL INFORMATION:
APPLICANT: CLAESSENS, JOHANNES AJ
APPLICANT: WALTER, FUCHS
TITLE OF INVENTION: RECOMBINANT INFECTIOUS LARYNGO TRACHEITIS VIRUS VACCINE
FILE REFERENCE: 2001001US
CURRENT APPLICATION NUMBER: US/10/099,619
CURRENT APPLICATION NUMBER: US/10/099,619
CURRENT FILING DATE: 2001-03-15
PRIOR APPLICATION NUMBER: EP012009759
PRIOR FILING DATE: 2001-03-15
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 564
TYPE: PRT
ORGANISM: AVIAN INFLUENZA VIRUS
US-10-099-619-2
               Search completed: March 17, 2003, 11:46:27 Job time: 20.8431 secs
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US-10-099-619-2
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                                                                                                                                                          Query Match 23.3%;
Best Local Similarity 43.3%;
Matches 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 23.7
Best Local Similarity 57.9
Matches 11; Conservative
                                                                                  119 GGAPAGGNIGGGQPQGGWG 137
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57.98;
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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Run on:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         length:
length:
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
Query
Match
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Gapop 10.0 , Gapext 0.5
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245
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heat shock protein
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A;Actession: Preliminary
A;Status: preliminary
A;Molecule type: nucleic acid
A;Molecule type: nucleic acid
A;Residues: 1-911 <LII>
A;Residues: 1-911 <LII>
A;Cross references: GB:X54815; GB:S46416; NID:g39396; PIDN:CAA38584.1; PID:g39397
A;Cross reference extracted from NCBI backbone (NCBIN:113318, NCBIP:113319)

밁 Qγ

Matches

46;

Local

Similarity

100.0%; ilarity 100.0%; Conservative C

0;

Score 245; DB 2; Pred. No. 4.1e-20; 0; Mismatches 0;

Length 911;

Indels

0,

Gaps

0

A;Title: Cloning, nucleotide sequence and heterologous expression of the protective A;Reference number: A47675; MUID:92407514; PMID:1527510
A;Contents: CN7531

A; Accession: A47675

R;Li, J.; Fairweather, N.F.; Novotny, P.; Dougan, G.; J. Gen. Microbiol. 138, 1697-1705, 1992

C; Accession: A47675

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
57.5	57.5	57.5	57.5	57.5	58	58	58	58	58	58	58	58	58	58	58.5
23.5	23.5	23.5	23.5	23.5	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.9
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HMIVN1	HMIVUR	VIMH	HMIV5	JQ0783	A26601	A40220	C98279	AF3004	A75256	н83636	T13580	E86099	A91259	DDEC	C83339
5	3	_	hemaqqlutinin prec	55.5K sporulation	elastin precursor	cleavage stimulati	hypothetical prote	conserved hypothet	conserved hypothet	hypothetical prote	hypothetical prote	ssDNA-binding prot	ssDNA-binding prot	single-stranded DN	hypothetical prote

A47675
A47675
A47675
Bordetella bronchiseptica
C;Species: Bordetella bronchiseptica
C;Species: 19-Dec-1993 *sequence_revision 18-Nov-1994 *text_change 08-Oct-1999

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N;Alternate names: outer membrane protein P70
C;Species: Bordetella parapertussis
C;Date: 07-Apr-1994 #sequence_revision 07-Apr-1994 #text_change 08-Oct-1999
C;Accession: S15204; S14659
                                                                                                                                                                                                                                                                                                                                                                                                RESULT 2
S15204
                                                                                                                    A; Gene: prn
C; Keywords: membrane protein
                                                                                                                                                                                                                        R;L1, L.J.; Dougan, G.; Novotny, P.; Charles, I.G. Mol. Microbiol. 5, 409-417, 1991
A;Title: P.70 pertactin, an outer-membrane protein A;Reference number: S15204; MUID:91251771; PMID:20
A;Accession: S15204
                                                                                                                                                           C; Genetics:
                                                                                                                                                                       A; Cross-references: EMBL: X54547;
                                                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-922 <LIL>
                                                     Query Match
Best Local S
Matches 46
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 ORATIRRGDAPAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 46
1 QRATIRRGDAPA---
                                                     46; Conserv
                                                       Conservative
                                                                   94.98;
-GGAVPGGAVPGGFGPLLLDGWYGVDVSDSTVDLAQ
                                                       <u>.</u>.
                                                                                                                                                                      NID:g39761; PIDN:CAA38419.1; PID:g39762
                                                   Score 232.5; DB 2
Pred. No. 1.1e-18;
D; Mismatches 0
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                                                                                   DB 2;
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Biochem. Biophys. Res. Commun. 265, 494-498, 1999
A;Title: Induction of Hsp70 in the fungus Rhizopus nigricans
A;Reference number: JC7132; MUID:20025372; PMID:10558896
                                                                                                                           C; Species: Rhizopus
C; Date: 03-Nov-2000
                                                                                                                                                                                     RESULT
PC7036
                   A; Accession:
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                                                                                                          C; Accession: PC7036
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                                                                                                                                                        heat shock protein 70 - Rhizopus nigricans (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                   C; Superfamily: ATP-dependent RNA helicase DBP:
                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Map position: 3
A; Introns: 239/3;
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A; Residues: 1-646 < CDAN>
A; Cross-references: EMBL: AL137082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Experimental source: cultivar Columbia; BAC clone F14P22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Reference number: Z23011
A; Accession: T45677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATP-dependent RNA helicase-like protein - Arabidopsis thaliana N;Alternate names: protein F14P22.160 C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 17-Nov-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: DNA
A;Residues: 1-910 <CHA>
A;Cross-references: GB:J04560; NID:g144053; PIDN:AAA22980.1; PID:g144054
A;Note: 1t is uncertain whether Met-1 or Met-3 is the initiator
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;D'Angelo, M.; Vezzi, A.; Modesto, D.; Pigazzi, M.; submitted to the Protein Sequence Database, January
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Accession:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Charles, I.G.; Dougan, G.; Pickard, Proc. Natl. Acad. Sci. U.S.A. 86, 3554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             outer membrane protein P.69 precursor - Bordetella pertussis
C;Species: Bordetella pertussis
C;Date: 07-Sep_1990 #sequence_revision 07-Sep-1990 #text_change 08-Oct-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; Accession:
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Best Local
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5-910/Product: outer membrane protein P6.9 #status predicted
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                                                                                                                                                                                                                                                     B.; Cresnar, B.; Breskvar,
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                                                                                                                                              Rhizopus nigricans
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                    PC7036
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                                                                                                                                                                                                                                                                                                                                Conservative
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40.0%;
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73.2%;
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pigazzi, M.; Valle, G.; Mewes, H.W.; ase, January 2000
                                                                                                                                                                                                                                                                                                                                                 ŏ.
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No. 3.
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3.3e-15;
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                                                                                                                      17-Nov-2000
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                    A; Map position: segment 4
C; Superfamily: influenza v
                                                                                                                                                            rroc. Natl. Acad. Sci. U.S.A. 78, 7639-7643, 1981 A;Title: Sequence relationships among the hemagglutinin A;Reference number: A93902; MUID:82150925; PMID:6174976 A;Accession: A04067
                                                                                 A;Molecule type: genomic RNA
A;Residues: 1-8,'M',10,'L',11-35,'T',37-88,'VN',91-99 <AIR>
A;Residues: GB:J02089; NID:g324129; PIDN:AAA43177.1;
A;Experimental source: strain A;Lucky/Ontario/611868 [H8]
A;Experimental source: strain A;Lucky/Ontario/611868 [H8]
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A; Residues: 1-565 < NOB>
                                                                                                                                                                                                                                                                                                                                               R;Nobusawa, E.; Aoyama, T.; Kato, H.; Suzuki, Y.; Tateno, Virology 182, 475-485, 1991
A;Title: Comparison of complete amino acid sequences and A;Reference number: A39987; MUID:91220697; PMID:2024485
                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession: F39
R; Nobusawa, E.;
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A;Residues: 1-641 <CER>
A;Cross-references: GB:AF188289
C;Superfamily: heat shock protei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-783 < MUR>
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ly: influenza virus hemagglutinin glycoprotein; hemagglutinin; hom
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probable serine-threonine protein kinase - Streptom C; Species: Streptomyces coelicolor C; Date: 05-Nov-1999 #sequence_revision 05-Nov-1999
                                                                                        A; Experimental source: strain A3(2)
                                                                                                                                                                                                                                                        ne protein kinase - Streptomyces coelicolor
coelicolor
                                                                                                                                                                                           James, K.D.; Parkhill, J.; Barrell, a Library, June 1999
                                             collagens
Score
Pred.
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Pred. No. 4.
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                                                                                                  PIDN:CAB45488.1; GSPDB:GN00070; SCOEDB:SC66T3.32c
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              Length 783;
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Mismatches

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Indels

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Gaps

0;

hemagglutinin precursor - influenza A virus (strain A/turkey/Ontario/6118/68) N/Contains: hemagglutinin HAl; hemagglutinin HA2

C;Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 16-Jun-2000 C;Accession: F39987; A04067; C33157 T.; Kato, H.; Suzuki, Y.; Tateno, Y.; Nakajima,

receptor-binding properties

A; Cross-references: GB:D90304; NID:g221317; PIDN:BAA14334.1; A; Experimental source: strain A/turkey/Ontario/6118/68 [H8N4] PID:g221318

genes of 12 subtypes

of influ

amino PID:g324130

end

of the

HA1 chain

comprise residues

homotrimer; transmembrane protein

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proteinase do (EC 3.4.21.-) [imported] - Brucella melitensis (strain 16M) C:Species: Brucella melitensis C:Species: Brucella melitensis C:Species: Brucella melitensis C:Spate: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2002 C:Accession: AG3328 R:DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; Patra, G.; Mujer, C.; Los, T.; Mazur, M.; Goltsman, E.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghar Proc. Mazur. Acad. Sci. U.S.A. 99, 443-448, 2002 A:Title: The genome sequence of the facultative intracellular pathogen Bruce A; Reference number: AD3252; PMID:11756688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Note: the nucleotide sequence w A; Accession: $71636
                                                                                                                                                                                                                     RESULT
AG3328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Description: involved in protein folding and assembling/disassembling of protein comp. C;Superfamily: heat shock protein 70 C;Keywords: ATP; cytosol; heat shock; molecular chaperone; stress-induced protein
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A;Residues: 4-10;137-143;158-164;221-227;329-335;362-368;388-394;425-431;573-579;609-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Title: Identification and characterization of cytosolic A; Reference number: S71636; MUID: 96437974; PMID: 8840502 A; Accession: S71640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N;Alternate names: heat sl
C;Species: Pichia angusta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          F:1-16/Domain: signal sequence #status predicted <SIG>F:17-343/Product: hemagglutinin HAl #status predicted <HAl>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: EMBL:Z29379; NID:g443914; PIDN:CAA82570.1; PID:g443915
R;Titorenko, V.I.; Evers, M.E.; Diesel, A.; Samyn, B.: van Beeumen, J.; Ro
Yeast 12, 849-857, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-645 <DIE>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              submitted to the EMBL Data Library, January 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Diesel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dnaK-type molecular chaperone HSA1 - yeast (Pichia angusta)
N; Alternate names: heat shock protein hsp72
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Best Local
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Best Local
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                                                                                                                                                                                                                                                                                                      DLYAAGGVPGGAAPGGF
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70.6%;
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was submitted
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Pred. No.
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6; Mismatches
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to the EMBL Data
                                           intracellular pathogen Brucella meliten
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                                                                                 Mujer, C.; Los, T.;
s, S.; O'Callaghan,
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Library, January
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102

GEGPGGGEVPGGEVPGG 119

RESULT

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A; Reference number: Z14840; MUID:97404659; PMID:9261371
A; Accession: T03166
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                                                                                                          A; Residues: 1-1300 <ENS>
A; Cross-references: EMBL: AF005370;
C; Superfamily: collagen alpha 2(1)
                                                                                                                                                                                                                                                             R;Ensser, A.; Pflanz, R.; Fleckenstein, U. Virol. 71, 6517-6525, 1997
                                                                                                                                                                                                                                                                                                                probable immediate early protein - alcelaphine herpesvirus C;Species: alcelaphine herpesvirus 1 C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_c
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A; Title: Complete Genome Sequence of Caulobacter
A; Title: Complete Senome Sequence of Caulobacter
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C; Keywords: hydrolase;
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A; Residues: 1-514 <STO>
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A; Cross-references: GB:
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Best Local S
Matches 21
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                                                          Local
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 GDAPAGGAVPGGA-VPGG 24
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ce: strain 16M
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66.7%;
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32.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MUID:21173698;
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Pred. No. 19;
2; Mismatches
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Pred. No. 17;
8; Mismatches
                                                      Score 61.5;
Pred. No. 4
                                   Pred. No. 49;
                                                                                                                                                                                        from GB/EMBL/DDBJ
                                                                                                            NID:g2337967; PIDN:AAC58118.1; chain; fibrillar collagen carb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GFGPLLDGWYGVDVSDSTVDLAQ
                                                                                                                                                                                                                                                                                                                  24-Mar-1999 #text_change
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                                                                      Length 1300;
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                                                                                                            l8.1; PID:g2338034
carboxyl-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                     431
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                                   Gaps
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C98152

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hypothetical protein F53F1.5 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #tcC;Accession: T22572 R;Burton, J.
                                                                                                                                                                                RESULT 14
T22572
                                  submitted to the EMBL Data Library, A;Reference number: Z19583
A;Accession: T22572
                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Accession: AI3135
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, erage, G.; Gillet, W.; Grant, C.; Guenthner,
 A; Molecule
                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Cross-references: GB:AE008689; PIDN:AAL45503.1; A; Experimental source: strain C58 (Dupont)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Karp, P.; I
Science 294,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein fdsD [imported] - Agrobacterium tumefaciens (strain C58, C;Species: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 11-Jan-2002 C;Accession: AI3135
                                                                                                                                                                                                                                                                                                                                                                                                  A; Map
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; PMID:11743193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
AI3135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; Science 294, 2323-2328, 2001

A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium turk A; Reference number: A97359; PMID:11743194

A; Accession: C98152
                                                                                                                                                                                                                                                                                                                                                                                                                   A; Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-114 <KUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ster, E.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Accession: AI3135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Authors: Yoo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
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A:; Liu, F.; Wollam, C.; Allinger, M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Map position: linear chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: DNA
A; Residues: 1-114 < KUR>
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                                                                                                                                                                                                                                                                                                                                             Local
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                                                                                                                                                                                                                                                                           5 IRRGDAPAGGAVPGG----AVPGGFGPLLDGWYGVDVSDSTV 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P.; Romero, P.; Zhang, S.
294, 2317-2323, 2001
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                 preliminary;
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type:
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             translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
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D.; Kutyavin,
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                                                                                                                       18-Feb-2000
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Search completed: March 17, Job time: 28.2549 secs

2003, 11:38:09

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C98152

MAD-dependent formate dehydrogenase delta chain (AF298190) [imported] - Agrobacterium C;Species: Agrobacterium tumefaciens
C;Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 11-Jan-2002
C;Accession: C98152
                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
S37108
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                                                                                                                             A; Introns: 30/2
C; Superfamily:
                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-231 <SEB>
                                                                                                                                                                                                                                                               C;Accession: 53/100
R;Sebastiano, M.; Zei, F.; Lassandro, F.; Nola, M.; Rsubmitted to the EMBL Data Library, September 1993
submitted to the EMBL Data Library, September 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Map position: 5
A;Introns: 30/2
C;Superfamily: proline-rich protein
                                                                                                                                                                C; Genetics:
                                                                                                                                                                        A;Cross-references: EMBL:X74838; NID:g398752; PID:g398753
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A; Accession: S37108
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A; Cross-references: EMBJ
A; Experimental source: C; Genetics:
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                                                                                                                                                                                                                                                                                                                              ;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 21-Jan-2000
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                                                                  Matches
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les 13; Conserv
                                 8 GDAPAGGAVPGGAVPGGFGPLLDGWY
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                                                                                                                                                                                                                                                                                 F.; Nola, M.; Ristoratore, F.; Bazzicalupo, P. eptember 1993
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GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

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Result
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	200	713	35	35		ເດ		PR01482;	212; Pe	IPR003991;	IPR003992;	IPROO48	5; A476	80; CAA	15; CAA		email	equires	nd this	an Bloi	ne swis	-PROT e	1 1 1 1 1 1	CONCENTRATIONS.	LANEOUS	E: MAY	LULAR L	SUBUNIT: MONOMER.	ED BY T	ON: AGG	crobiol	tica.";	outer-	nucleot	407514;	531;	ROM N.A	O F O	5.18·	Proteob	bronch	•	precurs		(Rel.	٠
	707	911	712	911	34	Signal; Viru	PRTACTNFAMLY.	PERTACTIN.	rtactin; 1.	<pre>91; pertactin_vir</pre>	92; pertactin.			01453.1;	X54815; CAA38584.1;		to license@	a license	statement	niormatics	s institute	ntry is cop		s.	SYNTHESIZ	CONTRIBUTE	OCATION: On	MER.	HE R-G-D SE	LUTINOGEN T	. 138:1697-		membrane pr	ide seguenc	MEDLINE=92407514; PubMed=1527510;		SEQUENCE FROM N.A., AND SEQUENCE OF							41 Tagt	26, Creat	
LINES).	E (INVOLVED		PERTACTIN (P.68).	P.94.		Virulence; Repeat.	Y.			in_vir.	in.	_sup.					or send an email to license@isb-sib.ch).	agreement (See http://www.ish-sih.ch/announce/	modified and this statement is not removed. Heade by and for commercial	rictions on	between the Swiss institute of Bioinformatics and the EMBL outstation -	۲.			MISCELLANEOUS: SYNTHESIZED ONLY IN THE PRESENCE OF LOW MG(2+)	TO THE DISEASE STATE OF WHOOPING CONGH.	SUBCELLULAR LOCATION: Outer membrane	BACTERIAL AUHESION, AND THUS PLAY A ROLE IN VIRULENCE. SUBUNIT: MONOMER.	MEDIATED BY THE R-G-D SEQUENCE. PERTACTIN MAY HAVE A ROLE IN	O EUKARYOTIC CELLS; A I	Gen. Microbiol. 138:1697-1705(1992).		protective outer-membrane protein P.68 pertactin from Rordatella	"Cloning nucleotide wer., NOVOCHY F., Dougan G., Charles I.G.; "Cloning nucleotide semipace and beterologies expression of the			JENCE OF 35-44.			eta subdivision; Alcaligenaceae;	(Alcaligenes bronchisepticus).		membrane protein P.68) (P.94).	sequence update)	id)	

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Best Local Similarity
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                                                                                                      EMBL; X54547; CAA38419.1; -.
EMBL; A26124; CAA01786.1; -.
EMBL; A19182; CAA01454.1; -.
PIR; S15204; S15204
PIR; S14659; S14659.
InterPro; IPR004899; Pertact_sup.
InterPro; IPR003992; pertactin.
                                                                                                                                                                                         the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                    CHAIN
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PRINTS; PRO1484; PRTACTNEAMLY.
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                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                    "P.70 pertactin, an outer-membrane protein from parapertussis: cloning, nucleotide sequence and Escherichia coli.";
                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-91251771; PubMed-2041476; Li L.J., Dougan G., Novotny P., Charles I.G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SITE
DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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Bordetella.
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15-JUN-2002
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                                                                                                                                                                                                                                                                                    SUBCELLULAR LOCATION: Outer membrane. DISEASE: MAY CONTRIBUTE TO THE DISEASE MISCELLANEOUS: SYNTHESIZED ONLY IN THE
                                                                                                                                                                                                                                                                                                                           . Microbiol. 5:409-417(1991).
FUNCTION: AGGLUTINOGEN THAT BINDS TO EUKARYOTIC CELLS; A I MEDIATED BY THE R-G-D SEQUENCE. PERTACTIN MAY HAVE A ROLE BACTERIAL ADHESION, AND THUS PLAY A ROLE IN VIRULENCE.
                                                                                                                                                                                                                                                                               CONCENTRATIONS.
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                                                                                                                                                                                                                                           SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EN
    membrane;
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                                                       Virulence;
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membrane protein P
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P.95.
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   PERTACTIN (P.70).
POTENTIAL.
CELL ATTACHMENT S
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Pred. No. 1.1e-19;
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Best Local
                                                                                                                                           "Structure of Bordetalla pertussis virulence factor P.69 perta Nature 381:90-92(1996).

"I FUNCTION: AGCUTINOGEN THAT BINDS TO EUKARYOTIC CELLS; A I MEDIATED BY THE R-G-D SEQUENCE. PERTACTIN MAY HAVE A ROLE BACTERIAL ADHESION, AND THUS PLAY A ROLE IN VIRULENCE.

"I SUBUNIT: MONOMER.
                                                                                                                                                                                                                                                                                                                                    Charles I.G., Dougan G., Pickard D., Chatfield S., Smi Novothy P., Morrissey P., Fairweather N.F.;
"Molecular cloning and characterization of protective protein P.69 from Bordetella pertussis.";
Proc. Natl. Acad. Sci. U.S.A. 86:3554-3558(1989).
                                                                                                                                                                                                         X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS).
MEDLLNE-96196517; PubMed-8609998;
Emsley P., Charles I.G., Fallweather N
                                                                                                                                                                                                                                                                     Li J.L., Fairweather N.F., Novotny P., Dougan G., Charles I.G., "Cloning, nucleotide sequence and heterologous expression of the protective outer-membrane protein P.68 pertactin from Bordetella
                                                                                                                                                                                                                                                                                                         REVISIONS TO 264 AND MEDLINE-92407514; Pub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pertactin precursor PRN OR OMP69A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bordetella pertussis.
Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-FEB-1994
15-JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=89264462; PubMed=2542937;
                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=520;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                         Gen.
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CONCENTRATION.
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46; Conserv
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http://www.isb-sib.ch/announce/

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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Viruses; ssRNA negative-strand viruses; Orthomyxoviridae; Influenza A viruses; Influenzavirus A. NCBI_TaxID-11471;
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Proc. Natl. Acad.
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InterPro; iPR003992; pertactin_vir.
InterPro; iPR003991; pertactin_vir.
Pfam; PF03212; Pertactin; 1.
PRINTS; PR01482; PERTACTIN.
PRINTS; PR01484; PRTACTNFAMLY.
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Nobusawa E., Aoyama
"Comparison of compl
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                                                                                                                                                                             -1- SUBUNIT:
                                                                                                                                                                                                                                     "Sequence relationships among the hemagglutinin genes of influenza A virus."; Proc. Natl. Acad. Sci. U.S.A. 78:7639-7643(1981).
                                                                                                                                                                                                                                                                                                       Air G.M.;
                                                                                                                                                                                                                                                                                                                         MEDLINE-82150925;
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                                                                                                                        C. Natl. Acad. Sci. U.S.A. 78:7639-7643(1981).
FUNCTION: HEMAGGLUTININ IS RESPONSIBLE FOR ATTACHING THE V.
CELL RECEPTORS AND FOR INITIATING INFECTION.
SUBUNIT: HOMOTRIMER. EACH OF THE MONOMERS IS FORMED BY TWO
(HA1 AND HA2) LINKED BY A DISULFIDE BOND.
SIMILARITY: BELONGS TO THE INFLUENZA HEMAGGLUTININ FAMILY.
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ma T., Kato H.,
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Pred. No. 4.7e
3; Mismatches
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X 3 AA TANDEM REPEATS OF'
A169871E20A2E7DB CRC64;
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No. 4.
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Best Local
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MEDLINE-96437974; PubMed-8840502;

Titorenko V.I., Evers M.E., Diesel A., Samyn B., van Beeumer Roggenkamp R.O., Kiel J.A.K.W., van der Klei I.J., Veenhuis Roggenkamp R.O., Kiel J.A.K.W., van der Klei I.J., Veenhuis Proteintication and characterization of cytosolic Hansenula polymorpha proteins belonging to the Hsp70 protein family.*, Yeast 12:849-857(1996).

1: FUNCTION: ACTS AS A CHAPERONE (BY SIMILARITY).

1: SUBCELLULAR LOCATION: Cytoplasmic.

1: INDUCTION: BY HEAT SHOCK.
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
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01-OCT-1996 (Rel.
15-JUL-1999 (Rel.
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Eukaryota; Fungi; Ascomycota; Saccharomycotina;
Saccharomycetales; Saccharomycetaceae; Pichia.
                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A., AND
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ProDom; PD000225; Hemagglutn;
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C33157; C33157.
A04067; A04067.
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IPRO01364; Hemagglutn.
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Pred. No. 5.5;
6; Mismatches
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I (IN REF. 2).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Signal.
                                                                                                                                                                                                        J., Veenhuis M.;
                                                                                                                                                                                                                                                                                                                                                                  Saccharomycetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 565;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (POTENTIAL).
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RESULT 6
CUT2_CABEL
CUT2_CABEL
ID CUT2_CABEL
AC P34682
DT 01-FEB
CUT-2.
OS Caenor
OC Rhabdi:
OX NCBI_T.
RN [1]
RP SEQUEN
RC STRAIN
RA LASSAN
RT PTOOUG
RT PT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HSSP; File.

R InterPro; IPR00102;, HSP70; 1.

P Pfam; PF00012; HSP70; 1.

DR PRINTS; PR00301; Hsp70; 1.

DR Probom; P000089; Hsp70; 1.

DR PROSITE; PS00229; HSP70_2; 1.

DR PROSITE; PS01036; HSP70_3; 1.

DR PROSITE; PS01036; HSP70_3; 1.

DR PROSITE; PS01036; HSP70_3; 1.

Chaperone; Heat shock; ATP binding; Multigene family; Acetylation.

PROSITE; PS01036; HSP70_3; 1.

ACETYLATION (BY SIMILARITY).

ACETYLATION (BY SIMILARITY).

C5C908D9066501C4 CRC64;

CGgr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                       Cuticle;
                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collabora between the Swiss Institute of Bioinformatics and the EMBI outstati the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Rhabditidae; Pelode;
NCBI_TaxID=6239;
                                                                                                                                                                                                                                               or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN-Bristol N2;
MEDLINE-95021520; PubMed-7935621;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-FEB-1994 (Rel. 28, Created)
01-FEB-1994 (Rel. 28, Last sequence up
01-FEB-1996 (Rel. 33, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Caenorhabditis elegans.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 DAPAGGAVPGGAVPGGF 25
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  ; Signal; Repeat.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         precursor.
                                                                                                                                                                           S37108.
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                                                                                                                                                                                                  CAA52832.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nematoda; Chromadorea; Rhabditida; Rhabditoidea; rinae; Caenorhabditis.
POTENTIAL.
CUTICLIN 2.
POLY-GLY.
POLY-PRO.
POLY-PRO.
12 X 4 AA REPEAT OF A-A-P-[AVI].
1.
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                                                                                                                                                                                                                                                                                                                                                              EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                 collaboration
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RESULT 7
ELS_MOUSE
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Best Local
   Matches
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Best Local
                                                                                                                                                                                                                                                                       WYDLINE-95130069; PubMed-7829060;
Wydner K.S., Sechler J.L., Boyd C.D., Passmore H.C.;
Wydner K.S., Sechler J.L., Boyd C.D., Passmore H.C.;
"Use of an intron polymorphism to localize the tropoelastin mouse chromosome 5 in a region of linkage conservation with chromosome 7.";
Genomics 23:125-131(1994).
-1- FUNCTION: MAJOR STRUCTURAL PROTEIN OF TISSUES SUCH AS AO NUCHAL LIGAMENT, WHICH MUST EXPAND RAPIDLY AND RECOVER C-1- SUBUNIT: THE POLYMERIC ELASTIN CHAINS ARE CROSS-LINKED T
                                                           Structural protein; Repeat; Signal; Connective tissue SIGNAL 1 27 POTENTIAL. CHAIN 28 860 ELASTIN.
                                                                                                                                          entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for commodified and this statement is not removed.
                                                 SEQUENCE
                                                                                              PRINTS; PR01500; TROPOELASTIN
                                                                                                                  EMBL; U08210; AAA80155.1; -. MGD; MGI:95317; Eln.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last sequence update)
01-OCT-1996 (Rel. 34, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPEAT
REPEAT
REPEAT
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REPEAT
                                                                                                                                                                                                                                       INTO AN EXTENSIBLE 3D NETWORK.
-!- SUBCELLULAR LOCATION: EXTRACELLULAR MATRIX OF ELASTIC FIBERS.
-!- PTM: THE CROSSLINKS ARE MADE OF DEAMINATED LYS.
                                                                                                         InterPro;
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Elastin precursor (Tropoelastin).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ELS_MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REPEAT
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REPEAT
REPEAT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity 50.
              Similarity
                                                                                                      95317; Eln.
IPR003979; tropoelastin.
                                                860 AA;
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90
105
114
121
121
137
153
169
192
208
218
231 AA;
  Conservative
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90 93
105 108
14 117
1124
7 140
172
172
195
211
221
20833 MW;
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71955 MW;
          24.3%;
35.9%;
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            Score 59.5;
Pred. No. 2
                                           ELASTIN.
; OCOBE5AAE1EDD7F1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 60;
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7.
110.
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Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A48C9C5498D8E797 CRC64;
 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   860 AA
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                      В
                    1;
10;
                                                                                                                                                                       Usage
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                                             CRC64;
                     Length 860;
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ER COMPLETELY.
ED TOGETHER
                                                                                                                                                                                                         a collaboration
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human
                                                                                                                                                                     for commercial
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                                                                                                                                                                                                        outstation
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2 RATIRRGDAPAGGAVPG-----

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27

Indels

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Gaps

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RESULT 8
BRJA_MOUSE
ID BRAIA_M
ACC P17208
DT 01-AUG
DT 01-OCT
OT 0
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01-OCT-1996 (Rel. 34, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Brain-specific homeobox/POU domain protein
POU4F1 OR BRN3A OR BRN3 OR BRN-3.
                                      PROSITE; PS00027; HOMEOBOX_1;
PROSITE; PS00033; POU_1; 1.
PROSITE; PS00465; POU_2; 1.
PROSITE; PS50071; HOMEOBOX_2;
                                                                                                                                                                            PRINTS; PR00028; POUDOMAIN.
ProDom; PD000010; Homeobox; 1.
ProDom; PD000583; POU_domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-94215319; PubMed-8162704;
Theil T., Zechner U., Klett C., Adolph s
"Chromosomal localization and sequences
                                                                                                                                                                                                                                                                                                 InterPro; IPR001356; Homeobox.
InterPro; IPR000327; POU_domain.
                                                                                                                                                                                                                                                                                                                                                    MGD; MGI:102525; Pou4f1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE OF 286-401 FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cytogenet. Cell Genet.
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P17208;
               Franscription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         developmental control genes."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                                           ; S09237; S
P; P10037;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUBCELLULAR LOCATION: Nuclear.

TISSUE SPECIFICITY: BRAIN, PERIPHERAL SENSORY NERVOUS SYSTEM AND RETINA. IN THE ADULT NERVOUS SYSTEM BRN-3.0 PREDOMINATES IN THE MEDIAL HABENULA, SUPERFICIAL GRAY OF THE SUPERIOR COLLICULUS, RED NUCLEUS, MESENCEPHALIC NUCLEUS OF THE TRIGEMINAL GANGLION, NUCLEUS AMBIGUUS, INFERIOR OLIVARY NUCLEUS, AND PERIPHERAL SENSORY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AMBIGUUS, INFERIOR OLIVARY NUCLEUS, AND PERIPHERAL SENSORY, GANGLIA.
SIMILARITY: BELONGS TO THE POU TRANSCRIPTION FACTOR FAMILY.
CLASS-4 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: CONTAINS 1 HOMEOBOX DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $69350; AAB30577.2;
$51959; CAA36218.1;
$09237; $09237.
                                                                                                                                 SM00389; HOX;
SM00352; POU;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TW1;
regulation; Nuclear protein; DNA-binding; Homeobox;
                                                                                                                                                                                                                                                                                                                                                                           1A07
                                                                                                                                                                                                                                                                          homeobox;
                                                                                                                                                                                                                                                      pou; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-Testis,
                                      HOMEOBOX_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66:267-271(1994).
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Sciurognathi; Muridae;
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protein 3A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N A SUBSET OF
G OR MAINTAINING
M NEURONS.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tor
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RESULT 9
BR3A_HUMAN
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                                         RA COLIUM R.G., Fisher P.E., Datta M., Mellis S., Thiele C., Huebner K., A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; A. Croce C.M., Israel M.A., Theil T., Moroy T., DePinho R.A., Alt F.W.; Alt F.W.; Alt F.M.; Alt F.W.; Alt F.M.; Alt F.W.; Alt F.W.; Alt F.M.; Alt F.W.; Alt F.W.; Alt F.M.; Alt F.W.; A
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Best Local
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DOMAIN 5
DOMAIN 10
DOMAIN 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Xiang M., Zhou L. J., Macke J.P., Yoshio)
Shows T.B., Nathans J.;
"The Brn-3 family of POU-domain factors:
specificity, and expression in subsets of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BR3A_HUMAN STANDARD; PRT; 423 AA. 001851; Q15318; Q14986; 01-JUL-1993 (Rel. 26, Created) 01-NOV-1997 (Rel. 35, Last sequence update) 15-JUN-2002 (Rel. 41, Last annotation update) 15-JUN-2002 (Rel. 41, Last annotation update) 15-JUN-2003 (Rel. 41, Last annotation update) 15-JUN-2004 (Rel. 41, Last annotation update) 15-JUN-2005 (Rel. 41, Last annotation update) 15-JUN-2005 (Rel. 41, Last annotation update) 15-JUN-2006 (Rel. 41, Last annotation update) 15-JUN-2007 (Rel. 41, Last annotation update) 15-JUN-2008 (Rel. 41, Last 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
DNA_BIND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              proteins in activated Jurkat T cells.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bhargava A.K., Li Z., Weissman S.M.; "Differential expression of four members of the POU family of proteins in activated and phorbol 12-myristate 13-acetate-treated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 85-423 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=94052142;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Homeobox/POU domain protein RDC-1).
POU4F1 OR BRN3A OR RDC1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=93027214; PubMed=1357630;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Proc. Natl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 somatosensory neurons."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GDAPAGGAVPGGAVPGGFG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PubMed=8234287;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PubMed-7623109;
-J., Macke J.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            42781 MW;
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57.98;
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POLY-HIS.
GLY-RICH.
ALA-RICH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 59; DB
Pred. No. 17;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HOMEOBOX.
34EC99D789EBE939 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         POU.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Yoshioka T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of retinal ganglion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (BRN-3A) (OCT-T1)
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This

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YAP1_MOUSI
     OC GN DT DT AC
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Best Local S
Matches 11
           P46938;
01-NOV-1995 (Rel. 32, C
01-NOV-1995 (Rel. 32, I
15-JUN-2002 (Rel. 41, I
65 kDa Yes-associated F
YAP1 OR YAP65 OR YAP.
Mus musculus (Mouse)
                                                                                                                                                                                                           CONFLICT
SEQUENCE
                                                                                                                                                                                                                              DNA_BIND
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                Developmental DOMAIN 1(
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DOMAIN
   Eukaryota;
                                                                                YAP1_MOUSE
                                                                                          MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMART; SM00389; HOX; 1.
SMART; SM00352; POU; 1.
PROSITE; PS00027; HOMEOBOX_1;
PROSITE; PS00035; POU_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                          Transcription regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                      PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS; PR00028; POUDOMAIN.
ProDom; PD000010; Homeobox; 1.
ProDom; PD000583; POU domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRANSFAC; T01876; -. TRANSFAC; T04463; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001356; Homeobox.
InterPro; IPR000327; POU_domai
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF0004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genew;
                                                                                                                                 153
                                                                                                                                                  8
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; U10062; AAA57161.1; J
; L20433; AAA65605.1; J
; X64624; CAA45907.1;
                                                                                                                               GGGPGGGGGPGGGG 171
                                                                                                                                                 GDAPAGGAVPGGAVPGGFG 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601632;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PF00046;
PF00157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P10037; 1AU7.
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                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                    PS500465; POU_2; 1.
PS50071; HOMEOBOX_2;
    Metazoa;
                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                      149
155
174
189
                                                                                                                                                                                                                                                                                                                                                                                                        protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pou;
                                                                              STANDARD;
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                                                                                                                                                                                                                      Chordata;
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                                                                                                                                                                            24.18;
57.98;
                             Last sequence update)
Last annotation update)
protein (YAP65).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             POU_domain
                                                           Created)
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                                                                                                                                                                                                           MW;
                                                                                                                                                                                                                                                                                                                                                                                                                           Nuclear
                                                                                                                                                                                                                          MISSING (IN REF. 2).

MISSING (IN REF. 3).

GP -> PA (IN REF. 3).

GP -> PA (IN REF. 3).

GP -> AA (IN REF. 3).

G -> A (IN REF. 3).

A -> S (IN REF. 2).

MISSING (IN REF. 3).

A -> R (IN REF. 3).

A -> R (IN REF. 3).

A -> R (IN REF. 3).
                                                                                                                                                                     0
                                                                                                                                                                             Score 59;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                   POU-IV BOX.
POLY-HIS.
GLY-RICH.
                                                                                                                                                                                                                                                                                                                            A ->
                                                                                                                                                                                                                                                                                                                                              HOMEOBOX.
                                                                                                                                                                                                                                                                                                                                                                 ALA-RICH.
POU.
                                                                                                                                                                                                                   AER -> GS (IN REF.
AQR -> PS (IN REF.
Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                          B3AE4732E1309F34
                                                                                                                                                                   Mismatches
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-> ARR
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17;
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(IN REF. 3).
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HEMA_IADIR
                                                                                                                                                                                                                                                                                                           RESULT
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-I- FUNCTION: HEMAGGLUTININ IS RESPONSIBLE FOR ATT. CELL RECEPTORS AND FOR INITIATING INFECTION.
-I- SUBUNIT: HOMOGRAHMER. EACH OF THE MONOMERS IS FOR (HAI AND HA2) LINKED BY A DISULFIDE BOND.
-I- SIMILARITY: BELONGS TO THE INFLUENZA HEMAGGLUT
                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                      P11132;
01-JUL-1989 (Re
01-JUL-1989 (Re
16-OCT-2001 (Re
Hemagglutinin |
                                                                                                                                        Viruses; skrain A/Duck/Ireland/113/83).
Viruses; skrA negative-strand viruses; Orthomyxov
Influenza A viruses; Influenzavirus A.
NCBI_TaxID=11365;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           J. Biol. Chem. 270:14/J. Biol. Chem. 270:14/J. BINDS TO THE -I- FUNCTION: BINDS TO THE -I- FUNCTION: ON
                                                                                                                                                                                                            Hemagglutinin precursor [Contains: Hemagglutinin HA2 chain].
                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
DOMAIN
                                                                                                                                                                                                                                                                                    HEMA_IADIR
                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This
                                                                                                           MEDLINE=87207664; PubMed=3576972;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Phosphorylation; Repeat.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRINTS; PR00403; WWI
SMART; SM00456; WW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sudol M., Bork Huebner K., Ler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=NIH Swiss; TISSUE=Embryo; MEDLINE=95301570; PubMed=7782338;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. STRAIN-NIH Swiss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PS01159; WW_DOMAIN_1; PROSITE; PS50020; WW_DOMAIN_2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Characterization of the mammalian YAP (Yes-associated protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                  10 APAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTV 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Its role in defining a novel protein Biol. Chem. 270:14733-14741(1995). FUNCTION: BINDS TO THE SH3 DOMAIN OF
                                                                                                                                                                                                                                                                                                                                          APASPAVPOTLMNSASGPLPDGWEQAMTQDGEV
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472 AA;
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50703 MW;
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42.48;
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Last annotation update
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                                                                                                                                                                                                                                                                                                                                                                                                       Score 59;
Pred. No.
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a collaboration -

outstation

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<u>:</u>

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proliferating osteoblasts, but not detectable TISSUE SPECIFICITY: BONE AND TESTIS. IN THE 1THE BASAL PORTION OF THE SEMINIFEROUS TUBULE.

but not detectable at other

LATTER,

her stages. RESTRICTED

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DEVELOPMENTAL STAGE: UP-REGULATED IN DIFFERENTIATING CULTURES OF PRIMARY OSTEOBLASTS AND DOWN-REGULATED IN LATE STAGE MINERALIZING CULTURES. IN TESTIS, EXPRESSION IS HIGHEST BETWEEN STAGES I AND VII WHEN MATURING SPERMATIDS REMAIN BURIED WITHIN THE SERTOLI

INDUCTION: BY PARATHYROID HORMONE AND CYCLIC AMP ANALOGS. PTM: THE CYTOPLASMIC DOMAIN CONTAINS POTENTIAL PHOSPHORYLATION

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This

SWISS-PROT entry is copyright.

SIMILARITY: CONTAINS SIMILARITY: CONTAINS

N

PROTEIN-TYROSINE

PHOSPHATASE DOMAINS

10 FIBRONECTIN TYPE III-LIKE DOMAINS

SITES

EPITHELIUM.

license agreement (See http://www.isb-sib.ch/announce/

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send an email to license@isb-sib.ch).

InterPro; IPRO01364; Hemagglutn.

HSSP; P03437; 1HTM

EMBL; M18450; AAA43082.1;

B26184; HMIVD8.

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PTPO_LTAT
ID PTPO_
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Q64612;
Q1-NOV-1997
Q1-NOV-1997
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VARIANT
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                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                Osteotesticular protein (OST-PTP).
                                                                                                                                                                                        "Identification of a hormonally regulated phosphatase associated with bone and testi
                                                                                                                                                                                                                        Mauro L.J.,
Dixon J.E.;
                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                 Rattus
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ProDom; PD000225; Hemagglutn;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
                                                                                                                                                                            Biol.
   ASSOCIATED WITH DIFFERENTIATION IN BONE AND TESTIS: CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2) tyrosine + phosphate.
SUBCELLULAR LOCATION: Type I membrane protein.
ALTERNATIVE PRODUCTS: 2 isoforms; 1 (shown here) and produced by alternative splicing. A presumed alternat of 4.8-5.0 kilobases, which may lack PTP domains, is
                                                                                                            Biol. Chem. 269:30659-30667(1994).
FUNCTION: MAY FUNCTION IN SIGNALING PATHWAYS DURING REMODELING, AS WELL AS SERVE A BROADER ROLE IN CELL ASSOCIATED WITH DIFFERENTIATION IN BONE AND TESTIS.
PHOSPHATASE ACTIVITY IS 5.6.
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(Rel.
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41.28;
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in tyrosine phosphatase precursor
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HEMAGGLUTININ HA2
N-LINKED (GLCNAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 59; DB Pred. No. 22; 6; Mismatches
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Sciurognathi; Muridae;
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SMART;
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SIGNAL
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PRINTS; PRO0700; PRTYPHPHTASE.
SMART; SM00060; FN3; 6.
SMART; SM00194; PTPC; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the European Bioinformatics Institute. Thuse by non-profit institutions as long modified and this statement is not removed entities requires a license agreement (See
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IPR003962;
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TYR_PHOSPHATASE_2;
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CYTOPLASMIC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ght. It is produced through a collaboration - Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                     SIMILARITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Signal; Glycoprotein.
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                                                                                                                                                                                                                                                                                  Signal;
SIGNAL
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01-JUL-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Isolation and characterization of male flower cDNAs from Plant J. 3:41-49(1993).

1- TISSUE SPECIFICITY: ENHANCED EXPRESSION IN MALE FLOWER ACCUMULATES IN THE GLUMES AND IN ANTHER WALLS, PALEAS OF MATURE FLORETS.
                                                                                                                                      REPEAT
REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN-CV. BE10; TISSUE=Tassel;
MEDLINE-94004987; PubMed-8401606;
Wright S.Y., Suner M.-M., Bell P.J.
                                                                                                         REPEAT
                                                                                                                                                                                                                                                                        CHAIN
                                                                                                                                                                                                                                                                                                                                PIR;
                                                                                                                                                                                                                                                                                                                                              EMBL;
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13; Conserv
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19; Conserv
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                                                              128
       Conservative
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(Rel. 26, Last sequence up
(Rel. 41, Last annotation
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75
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38.0%;
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                                                              MW.
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yta; Liliopsida; Poales; Poaceae; PACC clade;
   score 58.5; D
Pred. No. 6.1;
5; Mismatches
                                                                                                               1-3.

8 X 4 AA APPROXIMATE REPEATS.

2-1.

2-2.

2-3.

2-4.

2-5.
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N-LINKED
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MES18 PROTEIN.
3 X APPROXIMATE TANDEM REPEATS.
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                              Length 128;
   Indels
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PALEAS AND LEMMAS
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RADA_MYCTU
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    ZN_FING
                                       TIGREAMS; TIGRO0416; sms; 1.
PROSITE; PS50162; RECA_2; 1.
DNA repair; ATP-binding; Zin
                                                                                                                                                                                                                                                                                                         EMBL; AL022075; CAA17854.1;
EMBL; AE007169; AAK48049.1;
TIGR; MT3691; -.
                                                                                                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Exthe European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-sorsend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekaia F. Badcock K., Basham D., Brown D., Chillingworth T., Connor R. Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holmorishy T., Jagels K., Krogh A., McLean J., Moule S., Murphy Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J. Rutter S., Seeger K., Skelton S., Squares R., Sulston J.E., Taylor K., Whitehead S., Barrell B.G.; "Deciphering the biology of Mycobacterium tuberculosis from complete genome sequence.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
DNA repair protein radA homolog (DNA repair p.
RADA OR RV3585 OR MT3691 OR MTV024.03.
Mycobacterium tuberculosis.
                                                                                                                    SMART; SM00382; AAA; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        laboratory strains.";
Submitted (APR-2001) to the EMBL/GenBank/DDBJ
-i- FUNCTION: MAY PLAY A ROLE IN THE REPAIR OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
STRAIN-CDC 1551 / Oshkosh;
Fleischmann R.D., Alland D., Eisen J.A.,
Peterson J., DeBoy R., Dodson R., Gwinn
Kolonay J.F., Nelson W.C., Umayam L.A.,
Delcher A., Utterback T., Weldman J., Ki
                                                                                                                                                                                         InterPro; IPR003593; AAA_ATPase.
InterPro; IPR001984; Lon_endopep
InterPro; IPR001553; RecA.
InterPro; IPR004504; Sms.
                                                                                                                                                                                                                                                                                       TubercuList; Rv3585;
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STRAIN-H37Rv;
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053570;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Whole genome comparison of Mycobacterium tuberculosis
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SIMILARITY: BELONGS TO THE RECA FAMILY. RADA SUBFAMILY.
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                                                                                                                                                                      PR00830; ENDOLAPTASE.
                                                                                                                                                  PD000229;
; ATP-binding;
10 27
95 102
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                                                                                                                                          RecA; 1.
                                                                                                                                                                                                                                        Lon_endopep.
  Zinc-finger; DNA-binding; Complete proteome.
C4-TYPE (POTENTIAL).
ATP (POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A., Carpenter L., White O., nn M.L., Haft D., Hickey E., .., Ermolaeva M.D., Salzberg Khouri H., Gill J., Mikula
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SEQUENCE

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49913 MW;

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RESULT
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Matches 22
                                                                              MEDLINE-21156231; PubMed-11258796; Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Y. Hayashi T., Makino E., Nakayama K., Murata T., Tanaka M., T. Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Ya Kuhara S., Shiba T., Hattori M., Shinagawa H.; "Complete genome sequence of enterohemorrhagic Escherichia 0157:H7 and genomic comparison with a laboratory strain K-1, Na Res. 8:11-22(2001).
                                                                                                                                                                                                                                       Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D., Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A., Posfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L., Grotbeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K., Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C., Welch R.A., Blattner F.R.; "Genome sequence of enterohaemorrhagic Escherichia coli O157:H7." "Gram and the sequence of enterohaemorrhagic Escherichia coli O157:H7."
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01-AUG-1992 (Rel. 23, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
Single-strand binding protein (SSB) (Helix-destabilizing
SSB OR EXRB OR LEXC OR B4059 OR Z5658 OR ECS5041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSB_ECOLI
P02339;
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MEDLINE-82186711; PubMed-7042342;
Beyreuther K., Berthold-Schmidt V., Geider K.;
Belological activity and a partial amino-acid sequence coll DNA-binding protein I isolated from overproducing
                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                     STRAIN-0157:H7 / EDL933 / ATCC 700927; MEDLINE-21074935; PubMed-11206551;
                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                            region
                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FAM.
STRAIN=K12 / MG1655;
MEDLINE=94089392; PubMed-8265357;
MEDLINE=94089392; PubMed-8265357;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Escherichia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Escherichia coli, and Escherichia coli 0157:H7.
                                                                                                                                                                                                                                                                                                                                                                                                                          *Analysis of the region from 89.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-82037821;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   104 LLLEVA 109
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                                                                                                                                                                                                                                                                                                                                                           7157:H7 / 7
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B21; PubMed=6270666;
                                                                                                                                                                                                                                                                                                                                                                                                             Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          83334;
                                                                                                                                                                                                  RIMD 0509952;
                                                                                                                                                                                                                                                                                                                                                                                                                          to 92.8
                                                                                                                                                                                                                                                                                                                                                                                                                                        Escherichia coli
                                                                                                                                                                                                                                                                                                                                                                                                            o 92.8 minutes.";
21:5408-5417(1993).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 III,
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of Escherichia cells.";
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K-12.";
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Tobe T.,
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X-RAY CRYSTALLOGRAPHY (2.9 ANGSTROMS) OF 1-135.
MEDLINB-9738073; PubMed-9192620;
Raghunathan S., Ricard C.S., Lohman T.M., Waksman G.;
"Crystal structure of the homo-tetrameric DNA binding domain Escherichia coli single-stranded DNA-binding protein determination of the coli single-stranded DNA-binding protein determination."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=87276593; PubMed=3301414;
Casas Finet J.R., Khamis M.I., Maki A.W., Chase J.W.;
"Tryptophan 54 and phenylalanine 60 are involved synergistically
the binding of E. coli SSB protein to single-stranded
polynucleotides.";
Transport
This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                        2.9-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Williams K.R., Murphy J.B., Chase J.W., "Characterization of the structural and "Scherichia coli single-stranded DNA bilssb-l mutant gene. Expression of the ssl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chase J.W., L'Italien J.J., Murphy J.B., Spicer E.K., Williams "Characterization of the Escherichia coll SSB-113 mutant single-stranded DNA-binding protein. Cloning of the gene, DNA protein sequence analysis, high pressure liquid chromatography peptide mapping, and DNA-binding studies.";
J. Biol. Chem. 259:805-814(1984).
                                                                                                                                                                                                                                                                                                                                                              2.9-A resolution."
Proc. Natl. Acad.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=91203755;
Meyer R.R., Laine
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                                                                                                                                        Raghunathan S., Kozlov A.G., Lohman T.M., WE "Structure of the DNA binding domain of E. (NAT. Struct. Biol. 7:648-652(2000).

-i- FUNCTION: THIS PROTEIN IS ESSENTIAL FOR CHROMOSOMES AND ITS SINGLE-STRANDED DNA INVOLVED IN DNA RECOMBINATION AND REPAIR
                                                                                                                                                                                                                                                                                        MEDLINE-20392541;
                                                                                                                                                                                                                                                                                                                 X-RAY CRYSTALLOGRAPHY (2.8
                                                                                                                                                                                                                                                                                                                                                                                                            multiwavelength X-ray diffraction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Microbiol.
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"The single-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Identification and characterization of increased frequency of precise excision derivatives: nucleotide sequence of up. Bacteriol. 179:2892-2899(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MUTANTS SSB-200;
STRAIN-K12 / W31
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                                                                                             SIMILARITY: BELONGS TO THE SSB
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Rev. 54:342-380(1990).
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                                                                                                                         HOMOTETRAMER.
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                                                                                                                                                                                                                                                                                        PubMed=10932248
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P.S.;
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rphy J.B., Chase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein of Escherichia coli.";
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Search completed: March 17, 2003, 11:37:32 Job time: 14.6275 secs
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Best Local Similarity
Matches 11; Conserv
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PDB; 1KAW; 31-DEC-97.
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SWISS-2DPAGE; PD2339; COLI.
ECO2DBASE; F018.8; 6TH EDITION.
Ecogene; EG10976; ssb.
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INIT_MET 0
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Pfam; PF00436; SSB; 1.
TIGRPAMs; TIGR00621; ssb; 1.
PROSITE; PS00735; SSB_1; 1.
PROSITE; PS00736; SSB_2; 1.
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F->A: REDUCES DNA-BINDING AFFINITY.
V->M: INCREASED FREQUENCY OF PRECISE
EXCISION OF TRANSPOSON TN10 DERIVATIVES
(MUTANT SSB-201).
G -> S (IN REF 1).
G -> S (RU REF 1).
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L->F: INCREASED FREQUENCY OF PRECISE EXCISION OF TRANSPOSON TNIO DERIVATIVES (MUTANT SSB-202).
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Polymorphism of Repeated Regions of

pertussis, Bordetella parapertussis,

Infect. Immun. 68:4815-4817(2000).

EMBL; AJ250080; CAB76434.1; -.
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"Polymorphism of Repeated Regions of
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"Polymorphism of Repeated Regions of
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Infect. Immun. 68:4815-4817(2000).
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"Polymorphism of Repeated Regions
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beta subdivision; Alcaligenaceae;
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                                                           Created)
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Last annotation
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                                                                                                                                                                                                                                                                                                              Score 245; DB 2;
Pred. No. 2.3e-20;
Mismatches 0;
                                                                                                                                        PRT;
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bronchisepticus).
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RESULT
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Q93ST1;
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Pertactin (F
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O9ALQ3;
01-JUN-2001 (TrEMBLrel. 17,
01-JUN-2001 (TrEMBLrel. 17,
01-DEC-2001 (TrEMBLrel. 19,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bronchiseptica Pertactin.";
Infect. Immun. 69:1917-1921(2001).
EMBL; AY007264; AAG38440.1;
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STRAIN-ATCC19395;
MEDLINE-21117018; PubMed-11179374;
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PRINTS; PI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bordetella bronchiseptica Bacteria; Proteobacteria; Bordetella.
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Infect. Immun. 69:1917-1921(2001).
EMBL: AX007262; AAG38438.1;
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STRAIN-SO10328;
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Bordetella.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genetic and Phenotypic Heterogeneity
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PR01482; PERTACTIN.
                                                                                                                                                                                                                                                                                                                                  Similarity
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                   (Fragment).
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173 AA;
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(TrEMBLrel.
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beta subdivision; Alcaligenaceae;
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Pred. No. 2.5e-20;
; Mismatches 0;
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Pred. No. 2.6e-20;
; Mismatches 0;
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RESULT 10
Q9L4E2
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Q9KJY2
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Matches 46
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Matches 46
                                                        01-OCT-2000
01-OCT-2000
01-JUN-2002
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Q9KYY2;
01-OCT-2000 (TrEMBLrel. 15,
01-OCT-2000 (TrEMBLrel. 15,
01-JUN-2001 (TrEMBLrel. 17,
                                                                                     Q9L4E2;
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                                                                                                                                                                                                                                                        Keil D.J., Fenwick B.;
"Variability in the pertactin genes of Bordetella bronchiseptica isolates includes regions coding for the GGXXP and PQP families amino acid repeats.";
Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
       Bordetella bronchiseptica
Bacteria; Proteobacteria;
Bordetella.
                                      PRN.
                                               Pertactin.
                                                                                                                                                                                                                                                                                                                                                                                  Bordetella bronchiseptica
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EMBL; AY007270; AAG38446.2;
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Bacteria; Proteobacteria;
                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                      STRAIN=16039
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                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=518;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=11179374;
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46; Conserv
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178 AA;
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llarity 100.0%;
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20566 MW;
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17373 MW;
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beta subdivision; Alcaligenaceae;
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beta subdivision; Alcaligenaceae;
               (Alcaligenes bronce) beta subdivision;
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Pred. No. 3.1e-20;
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Pred. No. 2.6e-20;
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RESULT
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1D V5G6
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RESULT 12
Q9K5G
ID Q9K5G
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Q9K5G8;
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01-OCT-2000
01-OCT-2000
01-JUN-2001
                                                                                                                      01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-JUN-2001 (TrEMBLrel. 17, Pertactin (P.68) (Fragment).
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SEQUENCE FROM SEQUENCE FRO
      Bordetella
                       Bordetella bronchiseptica (Alcaligenes bronchisepticus)
Bacteria: Proteobacteria; beta subdivision; Alcaligenac
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Boursaux-Eude C., Guiso N.;
"Polymorphism of Repeated Regions of
pertussis, Bordetella parapertussis,
Infect. Immun. 68:4815-4817(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-JUN-2001 (TrEMBLrel. 17, Pertactin (P.68) (Fragment)
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PRINTS; PRO1484; PRTACTNFAMLY.
SEQUENCE 911 AA; 94093 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Role of the polymorphic region of the B.pertussis protein pertactin in immunity: implications for the design of pertussis vaccines."; Submitted (AUG-199) to the EMBL/GenBank/DDBJ databases.

EMBL; AJ245927; CAB82515.1; -.

InterPro; IPR003992; pertactin.

InterPro; IPR003991; pertactin.vir.

InterPro; IPR004999; Pertact_sup.

Pfam; PF03212; Pertactin; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bordetella bronchiseptica
Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9K5G6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL;
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158 t
                                                                                                                                                                                                                                                                                               PRELIMINARY;
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beta subdivision; Alcaligenaceae;
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Last annotation updat
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                                                                                                                                                                                                                                                                                               PRT;
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Pred. No. 1.6e-19;
Mismatches 0;
                       subdivision; Alcaligenaceae;
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Best Local
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                                                                    Q9AHP1;
01-JUN-2001 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
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01-OCT-2000
01-JUN-2001
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                                                                                                                                                                                                                            EMBL; AJ2
NON_TER
NON_TER
SEQUENCE
                                           Bordetella
                                                      PRN.
                                                                                                                                                                                                                                                      Boursaux Eude C., Guiso N.;

"Polymorphism of Repeated Regions of

pertussis, Bordetella parapertussis,

Infect. Immun. 68:4815-4817(2000).

EMBL; AJZ50076; CAB76430.1;
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                  NCBI_TaxID=518;
                                    Bacteria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Boursaux-Eude C., Guiso N.;
"Polymorphism of Repeated Regions of pertussis, Bordetella parapertussis, Infect. Immun. 68:4815-4817(2000).
                                                              Pertactin
                                                                                                                                                                                                                                                                                                                                                      Bordetella bronchiseptica (Alcaligenes bronchisepticus).
Bacteria; Proteobacteria; beta subdivision; Alcaligenaceae;
                                                                                                                                                                                                                                                                                                   MEDLINE=20359389; PubMed=10899896;
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EMBL; AJ250088; CAB76442.1;
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                                                                                                                                                    Local
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                                                                                                                                                                                                  Similarity
                                  pronchiseptica
Proteobacteria;
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159 AA;
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(TrEMBLrel. 15,
(TrEMBLrel. 17,
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                                                                                                          PRELIMINARY;
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15280 )
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; 15181 MW;
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17,
19,
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                               (Alcaligenes bronchisepticus).
beta subdivision; Alcaligenaceae;
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Last sequence update)
Last annotation update)
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Last sequence update)
Last annotation updat
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Pred. No. 6.1e
0; Mismatches
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Pred. No. 6.
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                                                                                                                                                                                                                                                                       Pertactin in Bordetella and Bordetella bronchiseptica.";
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SEQUENCE FROM

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RESULT 15
Q9KJY3
ID Q9KJY
AC Q9KJY
AC Q9KJY
O1-QC
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Search completed: March 17, 2003, 11:39:10 Job time: 49.902 secs
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Best Local Similarity
Matches 46; Conserv
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Best Local Similarity 90.2
Matches 46; Conservative
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Q9KJY3;
Q1-QCT-2000 (TremBLrel. 15, Created)
Q1-QCT-2000 (TremBLrel. 15, Last sequence update)
Q1-JUN-2001 (TremBLrel. 17, Last annotation update)
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NON_TER
SEQUENCE
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NON_TER
SEQUENCE
                                                                                                                                                                                                                                           STRAIN-B;

Warlability in the pertactin genes of Bordetella bronchiseptica isolates includes regions coding for the GGXXP and PQP families of amino acid repeats. ";

Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                         Pertactin (Fragment).

Bordetella bronchiseptica (Alcaligenes bronchisepticus).

Bacteria; Proteobacteria; beta subdivision; Alcaligenaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Novel Genetic and Phenotypic Heterogeneity in Bordetella bronchiseptica Pertactin."; Infect. Immun. 69:1917-1921(2001).
EMBL; AF298589; AAK16690.1; ...
InterPro; IPR003992; pertactin.
                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=518;
                                                                                                                                                                                                                                                                                                                                                                                                                  Bordetella.
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MEDLINE-21117018; PubMed-11179374;
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79 QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPLLDGWYGYDVSDSTVDLAQ 129
                                                                            1 QRATIRRGDAPA-----GGAVPGGAVPGGFGPLLLDGWYGVDVSDSTVDLAQ 46
                                                            QRATIRRGDAPAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 204
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179 AA;
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Pred. No. 8.3e-19;
0; Mismatches 0; Indels 5
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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Sequence 8, Appli
Sequence 4547, Ap
Sequence 4540, Ap
Sequence 4562, Ap
Sequence 4573, Ap
Sequence 4568, Ap
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ALIGNMENTS

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Best Local :
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LENGTH: 150
                                                                                                                                                                                                                                                                                   Matches
           APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/09/791,537
                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Debe, Derek
APPLICANT: Debe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT FILING DATE: 2001-02-22
RUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
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                                                                                 APPLICANT: Bionomix, Inc. APPLICANT: Debe, Derek
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APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
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CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
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TYPE: PRT
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Pred. No. 1.3e-20;
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; ORGANISM: Bordetella bronchiseptica US-09-791-537-4568
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                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4568
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LENGTH: 154
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                                                                                                                                                                                                                    FILE REFERENCE: 261/210
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APPLICANT: Denzer, Joseph
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY
TITLE OF INVENTION: METHODS OF USE THEREOF
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                                                                                                        LENGTH: 155
TYPE: PRT
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TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
                                                                                                                                                                                                                                                                                                         APPLICANT: Bionomix, Inc.
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NUMBER OF SEQ ID NOS: 153055
SOFTWARE: PatentIn version 3.0
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APPLICANT:
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 100.0%; Score 245; DB 21;
ilarity 100.0%; Pred. No. 1.3e-20;
Conservative 0; Mismatches 0;
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100.0%; Portive 0;
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Pred. No. 1.3e-20;
Mismatches 0;
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RESULT 8
US-09-791-537-85698
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US-09-791-537-37413
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                                                                                                                                                Sequence 4, Applicat GENERAL INFORMATION:
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Best Local Similarity 100.0%;
Matches 46; Conservative 0
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                         TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA PRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
                                                                                                        APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
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APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THERE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
FILE REFERENCE: 261/210
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CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
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CURRENT FILING DATE: 2001-02-22
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ilarity 100.0%;
Conservative (
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Pred. No. 1e-19;
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Pred. No. 1e-19;
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RESULT 11
US-09-791-537-4609
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US-09-855-754-7
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US-09-855-754-7
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; ORGANISM: Bordetella bronchiseptica
US-09-791-537-4609
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TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: US/09/855,754
                                                 SEQ ID NO 4609
LENGTH: 158
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PRIOR FILING DATE: 2000-05-25
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Best Local
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                                                                                                     CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
                                                                                                                                                             APPLICANT: Danzer, Joseph TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME TITLE OF INVENTION: METHODS OF USE THEREOF FILE REFERENCE: 261/210
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                                                                                      SOFTWARE: PatentIn version 3.0
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PRIOR FILING DATE: 2000-05-25
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                                    TYPE: PRT
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Pred. No. 1.
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Pred. No. 1e-19;
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US-09-791-537-4603
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 4603
LENGTH. 177
Sequence 50286, Application US/09791537 GENERAL INFORMATION: APPLICANT: Bionomix, Inc.
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GENERAL INFORMATION:
APPLICANT: Bionomix, Inc.
                                                                                                                                                                                   Matches
                                                                                                                                                                                                                Query Match
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LENGTH: 160
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APPLICANT: Debe, Derek
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
CURRENT APPLICATION NUMBER: US/09/791,537
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: Patentin version 3.0
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APPLICANT: Danzer, Joseph
TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
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                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                              ORGANISM: Bordetella bronchiseptica
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53 QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 103
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APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: INMUNOCENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
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Best Local (
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CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 153055
SOFTWARE: PatentIn version 3.0
SEQ ID NO 50286
LENGTH: 922
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TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
TITLE OF INVENTION: METHODS OF USE THEREOF
FILE REFERENCE: 261/210
                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. :
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                                                                                                                                                                                                                                                                         ORGANISM: Bordetella parapertussis
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                                                                              254 QRATIRRGDAPAGGAVPGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 304
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3: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*

4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*

5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*

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US-09-855-754B-6
US-09-855-754B-13
US-09-855-754B-13
US-09-855-754B-10
US-09-855-754B-10
US-09-855-754B-11
US-10-227-353-2
US-10-227-353-2
US-10-227-353-2
US-10-227-353-2
US-10-236-683-26256
PCT-US02-18256-51
US-10-366-683-27635
US-10-366-683-31381
PCT-US02-18256-52
US-10-366-683-27802
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RESULT 1 US-09-855-754B-8 ; Sequence 8, Ap ; GENERAL INFORM ; APPLICANT: BO ; APPLICANT: G ; TITLE OF INVE ; TITLE OF INVE ; TITLE OF INVE		4.4 5	43	41	40	ω ω Θ	37	36	ىب بى 4- ا <i>د</i>	i u	32	31	30	29	28	27	
SULT 1 -09-855-754B-8 Sequence 8, Application US/09855754B Sequence 8, Application US/09855754B Sequence 8, Application US/09855754B Sequence 8, Application US/09855754B APPLICANT: BOURSO-MACLOUF, NICOLE APPLICANT: GUISO-MACLOUF, NICOLE APPLICANT: GUISO-MACLOUF, NICOLE APPLICANT: GUISO-MACLOUF, NICOLE APPLICANT: GUISO-MACLOUF, NICOLE TITLE OF INVENTION: BORDETELLA PAR TITLE OF INVENTION: BORDETELLA PAR		5 5 8	58.5	58.5	59	5 9 5 9	59	59	, 5 9	59	59	59	59.5	59.5	60	60	
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THE REPEATED			25044, A	•	25823, A	30064, A	4545, Ap	4545, Ap	ς-			23606. A	₽.	•	N	2507, Ap	

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Sequence 4, Application US/09855754B
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
ITITLE OF INVENTION: POLYPEPIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: HONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: HONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: UNMBER: US/09/855,754B
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
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; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-8
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US-09-855-754B-4
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PATENTIN VEr. 2.1
SEQ ID NO 8
LENGTH: 46
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TITLE OF INVENTION: BRONCHISEPTICA, THEIR
TITLE OF INVENTION: INMUNOGENIC COMPOSITIO
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BOODETELLA PARAPERTUSSIS,
BRONCHISEPTICA, THEIR USE
IMMUNOGENIC COMPOSITIONS
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SEQ ID NOS: 25 PatentIn Ver.

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US-09-855-754B-7
US-09-855-754B-7
; Sequence 7, Application US/09855754B
; GENERAL INFORMATION:
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US-10-227-353-4
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Best Local Similarity
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INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
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                                                                                                            1 QRATIRRGDAPAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 46
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                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: Popov-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 243-6333
                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Lebovitz, Richard M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 26-Aug-2002 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/227,353
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
STREET: 2200 Clarendon Blvd., Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NO 4
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                                                                                         QRATIRRGDAPAGGAVPGGAVPGGFGPLLDGWYGVDVSDSTVDLAQ 299
                                                                                                                                                            46;
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                     TOPOLOGY: linear
                                                                                                                                                                                                                                                                                     TYPE: amino acids
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Pred. No. 4.3e-18;
Mismatches 0;
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Pred. No. 4.3e-18;
; Mismatches 0;
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                                                                                                                                                                                     Length 911;
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; TYPE: PRT
; ORGANIEM: Bordetella parapertussis
US-09-855-754B-6
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Best Local Similarity
When 46; Conserve
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; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-7
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Best Local Similarity
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARABERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BONDETELLA PARABERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: LAMUNOSENIC COMPOSITIONS
TITLE OF INVENTION: LAMUNOSENIC COMPOSITIONS
TILE REFERENCE: 03495-0206-09000
CURRENT FILLING DATE: 2010-05-16
CURRENT FILLING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR PILLING DATE: 2000-05-25
NUMBER: 050-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 03495-0206-0000

CURRENT APPLICATION NUMBER: US/09/855,754B

CURRENT FILING DATE: 2001-05-16

PRIOR APPLICATION NUMBER: 60/206,969

PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: POLYPÉPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA PITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
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      CORRESPONDENCE :
                                                                                     TITLE OF INVENTION:
                                              NUMBER OF SEQUENCES:
                                                                                                                             APPLICANT: CLARE, JEFFREY J.
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                         ADDRESS:
      Millen,
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                                                                                  EXPRESSION
      White,
                                                                                                                                                                                                                                                                                                                                                    Score 232.5;
Pred. No. 9.4e
0; Mismatches
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Pred. No. 4.9e-18;
0; Mismatches 0
Zelano & Branigan, P.C.
                                                                                  OF HETEROLOGOUS PROTEIN IN
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; ORGANISM: Bordetella pertussis
US-09-855-754B-5
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US-09-855-754B-5
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Best Local :
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LENGTH: 910
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: BRONCHISEPTICA, THEIR US
TITLE OF INVENTION: IMMUNOSENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
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Local Similarity
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ATTORNEY/AGENT INFORMATION:
NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
REFERENCE/DOCKET NUMBER: POPOV-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/227,353
FILING DATE: 26-Aug-2002
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: linear MOLECULE TYPE: protein
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LENGTH: 922 amino acids
TYPE: amino acid
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COMPUTER READABLE FORM:
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                                                                                                                                                        43;
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46; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (703) 2
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                                                                                                                                                Score 219; DB 5; Pred. No. 2.6e-15; 3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 232.5; DB 6; Pred. No. 9.4e-17;
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RESULT 10
US-09-855-754B-10
Sequence 10, Application US/09855754B
GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
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                                                                                                                                                                                                                                                                                                                                   ; LENGTH: 56
; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-9
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; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-13
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
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TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYPOPHISMS OF THE REPEATED

TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,

TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA

TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
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42; Conserv
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75.0%;
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Pred. No. 8.4e-16;
2; Mismatches 2
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Mismatches
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RESULT 12
US-10-282-122A-51012
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APPLICANT:
APPLICANT:
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                                                                                                                                                             Sequence 51012, Application US/10282122A
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Best Local
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SEQ ID NO 12
LENGTH: 56
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APPLICANT: BOURSAUX-EUDE, CAROLINE
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                                                         APPLICANT:
                                                                           APPLICANT:
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                                        APPLICANT:
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TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
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                         APPLICANT:
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PRIOR FILING DATE: 2000-05-25
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PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
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                                                                                                                                                                                                                                                                        1 QRATIRRGDAPAGGAVPGGAV------
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                                                                                                                        Wang, Liangsu
                                                                  Zamudio, Carlos
Malone, Cheryl
Haselbeck, Robert
                                   Ohlsen, Kari
Zyskind, Judith
                  Wall, Daniel
Trawick, John
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                                                                                                                                                                                                                                                                                                                                        86.5%;
75.0%;
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Pred. No. 8.4e-16;
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Pred. No. 8.4e-16;
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                                                                                US-09-855-754B-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Bordetella pertussis
US-10-282-122A-51012
  Query Match
Best Local Similarity
Matches 42; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                            SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 51012
LENGTH: 768
                                                                                                                                                                                                                                                  FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
                                                                                                                                                                                                                                                                                                           APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
                                                                                                                                                                              SOFTWARE: PatentIn
                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: BOURSAUX-EUDE, CAROLINE
                                                                                                ORGANISM: Bordetella bronchiseptica
                                                                                                                       LENGTH: 61
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/269,308
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/282,122A CURRENT FILING DATE: 2003-02-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/
PRIOR FILING DATE: 2000-05-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 2000-11-27
APPLICATION NUMBER: 60/257,931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/230,335
FILING DATE: 2000-09-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OF INVENTION: Identification of Essential Genes in Microorganisms REFERENCE: ELITRA.034A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/267,636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/253,625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
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                    85.5%;
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75.0%;
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                  Score 209.5; DB 5
Pred. No. 1.7e-15;
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Pred. No. 1.2e-14;
  Mismatches
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                                    DB 5;
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  Indels
15;
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TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-227-353-2
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US-10-366-683-26256
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US-10-227-353-2
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                                                                            Sequence 26256, Application US/10366683 GENERAL INFORMATION:
APPLICANT: Rubenfield, Marc J.
APPLICANT: Nolling, Jork
APPLICANT: Deloughery, Craig
APPLICANT: Bush, David
                                                                                                                                                                                                                                                                                                                                                        Query Match 82.4
Best Local Similarity 73.3
Matches 41; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/10227353
GENERAL INFORMATION:
APPLICANT: CLARE, JEFFREY J.
                    APPLICANT: Nolling, Jork
APPLICANT: Deloughery, Craig
APPLICANT: Bush, David
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: PATH03-04
CURRENT APPLICATION NUMBER: US/10/366,683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (703) 243-6333
TELEFAX: (703) 243-6410
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                         61 Q 61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
REFERENCE/DOCKET NUMBER: POPOV-2
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/460,269C
FILING DATE: 02-Jun-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
STREET: 2200 Clarendon Blvd., Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ROMANOS, MICHAEL A.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN
YEAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QRATIRRGDAPAGGAVPGGAV--------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QRATIRRGDAPAGGAVPGGAVPGGFGPGGFGPGGFGPGFGPVLDGWYGVDVSGSSVELA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/10/227,353 FILING DATE: 26-Aug-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
ZIP: 22201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: VA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: ARLINGTON
                                                                                                                                                                                                                                                                                                                                                                             82.4%;
73.2%;
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Pred. No. 1.7e-13;
3; Mismatches 2;
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                                                                                                                                                                                                                                                                                                                                                                                           Length 910;
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US-10-366-683-26256
                                                SEQ ID NO 26256
LENGTH: 542
                                                                                            PRIOR APPLICATION NUMBER: 09/252,991 PRIOR FILING DATE: 1999-02-18 NUMBER OF SEQ ID NOS: 33142
                                                                                                                                                     CURRENT FILING DATE:
            ORGANISM: Pseudomonas aeruginosa
                                      TYPE: PRT
                                                                                                                                                   2003-02-13
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밁 Ş Query Match
Best Local Similarity
Matches 16; Conserv 4 TIRRGDAPAGGAVPGGAVPGGFGPLLDGWYG 34 TAGRGDRPAGGVDVGGRPPGG----AHGWRG 27

Conservative

0; Mismatches Score 71; Pred. No.

29.0%;

B 6,

Length 542; Indels

4,

Gaps

1;

Search completed: March 17, 2003, 11:45:56 Job time: 47.902 secs

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Sequence 25 Application US/0985754B

GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: HONOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 05/09/855,754B
CURRENT FILING DATE: 2001-05-16
PRIOR PELLING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 25
SED ID NO 25
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
FEATURE:
NAME/KEY: MOD_RES
(DCCATION: (3)..(4)
(OTHER INFORMATION: Phe Asp, Phe Gly or Ala Val

US-09-855-754B-25
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1980.DAT:*
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1981.DAT:*
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1982.DAT:*
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1983.DAT:*
| SIDS1/gcgdata/geneseq/geneseqp-embl/AA1984.DAT:*
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/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1980.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1991.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1991.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1991.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1993.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1994.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1995.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1996.DAT:*
/SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1997.DAT:*
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SUMMARIES
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10	87	4 N C	ω ν ⊦	Result
27 27	27	27 27	27 27	Score
100.0	100.0	100.0	100.0	Query
31 36	20 23	15 15	15	Query Match Length DB
23 23	233	222	223	3 B
AAE17173 AAE17141	AAE17144 AAU89387	AAE17161 AAE17162 AAE17163	AAE1/145 AAE17145 AAE17160	ID
Maltose binding pr Bordetella pertuss	Bordetella pertuss Insulin/insulin-li	Monoclonal Ab deri	Bordetella pertuss Bordetella pertuss Monoclonal Ab deri	Description

New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio -

WPI; 2002-139897/18

Mooi FR;

(NEWE-) NEDERLANDEN MIN WELZIJN 30-JUN-2000; 2000EP-0202309.

45	4.4	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11
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ABB06381	AA021287	AAG61537	AA003675	AAU58355	AAG61538	ABG27823	AAE17148	AAE16190	AAE17149	AAE17147	AAU55300	AAE17152	AAE16191	AAE16189	AAE16188	AAE17151	AAE17150	AAE16192	AAE16186	ABB15654	AAE16187	AAE17159	AAE17158	AAE17157	AAE17156	AAE17155	AAE17154	AAE17153	AAE17171	AAR56850	AAR56849	AAE17174	AAE17172	AAE17170
Human multi-PDZ do	Corn KCP-like prot	Arabidopsis thalia	Human polypeptide	Propionibacterium	opsis	3	Bordetella pertuss	ω	pertus	Bordetella pertuss	cterium	Bordetella pertuss	B. bronchiseptica	B. bronchiseptica	septica	pertus	н		tica		B. bronchiseptica			monoclonal	8 monoclonal	monoclonal	monoclonal		se binding	transfer	ransfer p	ě	binding	Maltose binding pr

ALIGNMENTS

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29-JUN-2001; 2001WO-NL00493.		03-JAN-2002.		WO200200695-A2.		Unidnetified.		immune response.	diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy;	Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine;		Bordetella pertussis pertactin (Prn1) related peptide #2.	:	18-APR-2002 (first entry)		AAE17143;		AAE17143 standard; peptide; 10 AA.	AAE17143	RESULT 1

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RESULT 2
AAE17145
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Best Local S
Matches 5
The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prnl). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is B. pertussis prnl related peptide used in the invention.
                                                                                                                                                                                                                                                                                                        New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polic and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is B. pertussis prn1 related peptide used in the invention
                                                                                                                                                                                                                                                                 Claim 6; Page 7; 52pp; English.
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Haemophilus influenza b infection; therapy;
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                                                                                    The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is a peptide derived from monoclonal antibody which is specific
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                                                    Sequence
                                                                             to region 1 of
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                                                                                                                                                                                                                                                       New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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                                                                   Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy;
           WO200200695-A2
                                   Unidentified
                                                                                                                                                                                AAE17162 standard; peptide;
                                                                                                                                                                                                                                                                                                                                             Sequence
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                                                                                                           Monoclonal
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                                                                                                    Ab derived Pep3 peptide specific to region 1 of pertactin.
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                                                                                                                                                                                                                                                                                               Conservative
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Pred. No. 47;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diphtheria, tetanus, or polio
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     useful as
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RESULT 6
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Best Local
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                                                                                                           30-JUN-2000;
                                                                                                                                                                                                             Unidentified.
                                                                                                                                                                                                                                            Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; pollo; Haemophilus influenza b infection; therapy;
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                                                                                                                                  29-JUN-2001;
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                                                                                                                                                                                                                                                                                                                                                               AAE17163 standard;
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                                                                                  (NEWE-) NEDERLANDEN MIN WELZIJN
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New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other

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Mooi

WPI; 2002-139897/18

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Matches
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              The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is a peptide derived from monoclonal antibody which is specific
    sequence
                                                                                                                                                                                                                                                                Disclosure; Page 7;
                                                                                                                                                                                                                                                                                                     New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAE17144 standard; peptide;
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peptide
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Matches 5
                                                                                                                The invention relates to a method of modulating insulin activity in mammalian cells by administering a peptide that binds the insulin receptor (IR). A composition containing a peptide, optionally expressed from gene therapy vectors, that binds to Site 1 of IR and an insulin agonist are useful for treating diabetes. Also, peptides that are antagonists of the insulin-like growth factor-1 (IGF-1) receptor are useful for treating insulin-like growth factor (IGF-1) receptor are useful for treating insulin-like growth factor (IGF-1) receptor are (e.g. of prostate and breast) and diabetic retinopathy, while IGF-1 receptor agonists are useful for treating neurological diseases, including stroke and diabetic neuropathy. The peptides are also useful for compounds that bind to IR or IGF-1 receptor, potential
  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (NOVO)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Modulating insulin activity in mammalian cells, diabetes and tumours, comprises using peptides insulin-like growth factor receptors
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                                                        of the
                                                                     therapeutics and research reagents. AA and/or IGF-1 receptor-binding peptides
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Brissette R,
                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure;
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  23
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Hsiao K;
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Pred. No.
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                                                                        o IR or IGF-1 receptor, potential AAU88034-AAU90957 represent IR des and related amino acid sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pillutla R,
Ostergaard
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insulin
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RESULT 10
AAE17141
ID AAE17
XX
AC AAE17
XX
DT 18-AP
                                                                                                                                                                                                                                   RESULT 9
AAE17173
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                                                                                                                                                                                           Query Match
Best Local :
                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                       The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBB)-pertactin region 1 fusion protein used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or pollo
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Chimeric -
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18-APR-2002
                         AAE17141;
                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-139897/18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOO1 FR;
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                                                     AAE17141 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (NEWE-) NEDERLANDEN MIN WELZIJN.
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                                                                                                                                                  1 GGAVP 5
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                                                                                                                                                                            Similarity 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bordetella pertussis.
Unidentified.
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                                                                                                                                                                                                                                   31 AA;
                                                                                                                                                                              Conservative
(first entry)
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                                                   peptide;
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Pred. No.
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                                                                                                                                                                                                      23;
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RESULT 11
AAE17770
ID AAE17
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KW dipht
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Best Local
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                                                                                      Chimeric -
Chimeric -
                                                                                                                             Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy; immune response; maltose binding protein; MBP; fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                        Maltose binding
                                                                                                                                                                                                                       18-APR-2002
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                                                                                                                                                                                                                                                     AAE17170;
                                                                                                                                                                                                                                                                               AAE17170 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1mmune response.
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                                                                                                                                                                                                                                                                                                                                                                                      1 GGAVP 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is B. pertussis prnl peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 4; 52pp; English.
                                                                                      Bordetella pour Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pertussis pertactin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
ilarity 100.0%;
Conservative
                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                       protein-pertactin region 1 fusion protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antibacterial;
nus; polio; Haer
                                                                                                                                                                                                                                                                                 Protein;
                                                                                                                                                                                                                                                                                  36
                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ial; immunostimulant; antimicrobial;
Haemophilus influenza b infection;
                                                                                                                                                                                                                                                                                                                                                                                                                             Score 27;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Prn1) peptide
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thes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                            BB
                                                                                                                                                                                                                                                                                                                                                                                                                                              23;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                        MBP-Prn1.
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Best Local
  New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBP)-pertactin region I fusion protein used in the exemplification of the invention.
                                                              WPI; 2002-139897/18
                                                                                                                                                                                                                                                       Chimeric -
                                                                                                                                                                                                                                                                     Chimeric
                                                                                                                                             30-JUN-2000;
                                                                                                                                                                        29-JUN-2001;
                                                                                                                                                                                                    03-JAN-2002.
                                                                                                                                                                                                                                                                                                               diphtheria;
                                                                                                                                                                                                                                                                                                                                                 Maltose binding protein-pertactin region 1 fusion
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAE17172 standard;
                                                                                                                                                                                                                                                                                                                                                                              18-APR-2002
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                                                                                                                                                                                                                                                                                               immune response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10
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                                                                                                                    NEDERLANDEN MIN WELZIJN
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5; Conser
                                                                                                                                                                                                                                                                        i; prnl; anuxu.ia; polio; haemur
ia; tetanus; polio; haemur
raronse; maltose binding f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NEDERLANDEN MIN WELZIJN
                                                                                                                                                                                                                                                         Unidentified
                                                                                                                                                                                                                                                                   Bordetella pertussis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fig 4b;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diseases of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             36 AA;
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                                                                                                                                               2000EP-0202309
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                                                                                                                                                                                                                                                                                         antibacterial; immunostimulant; antimicrobial;
nus; polio; Haemophilus influenza b infection;
maltose binding protein; MBP; fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mammals, e.g. diphtheria,
                                                                                                                                                                                                                                                                                                                                                                                                                                   36
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Pred. No.
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hes 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tetanus, or polio
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                                                                                                                                                                                                                                                                                                                                                 protein,
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Best Local S
Matches 5
The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis. B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodles against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBB)-pertactin region I fusion protein used in the exemplification of the invention.
                                                                                                                                                                                                                                                                                                              WPI;
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                                                                                                                                                                                                                                    New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or pollo
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Chimeric -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; diphtheria; tetanus; polio; Haemophilus influenza b infection; immune response; maltose binding protein; MBP; fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Maltose binding protein-pertactin region 1 fusion protein, MBP-Prn5.
                                                                                                                                                                                                        Example 1; Fig 4b; 52pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUN-2001; 2001WO-NL00493
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Pred.
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No.
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hes 0;
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                                                 Matches
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                                                                                                                    conditions (presence of auxin). LTP is esp. one of the four proteins given in AAR56849-52, and is esp. derived from the same species as the cells being cultured. LPF from carrot, spinach, millet, maize, barley or rape can also be used (see AAR56853-58).
                                                                                                                                                                                                                                                                                                        Inducing differentiation of cultured cells with lipid transfer protein - esp to produce somatic plant embryos, also new proteins, DNA and oligo-nucleotide probes.
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Jouenne TG,
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Pred. No. 1.1e+02;
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Pred. No. 1.1e+02;
Mismatches 0;
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RESULT 15

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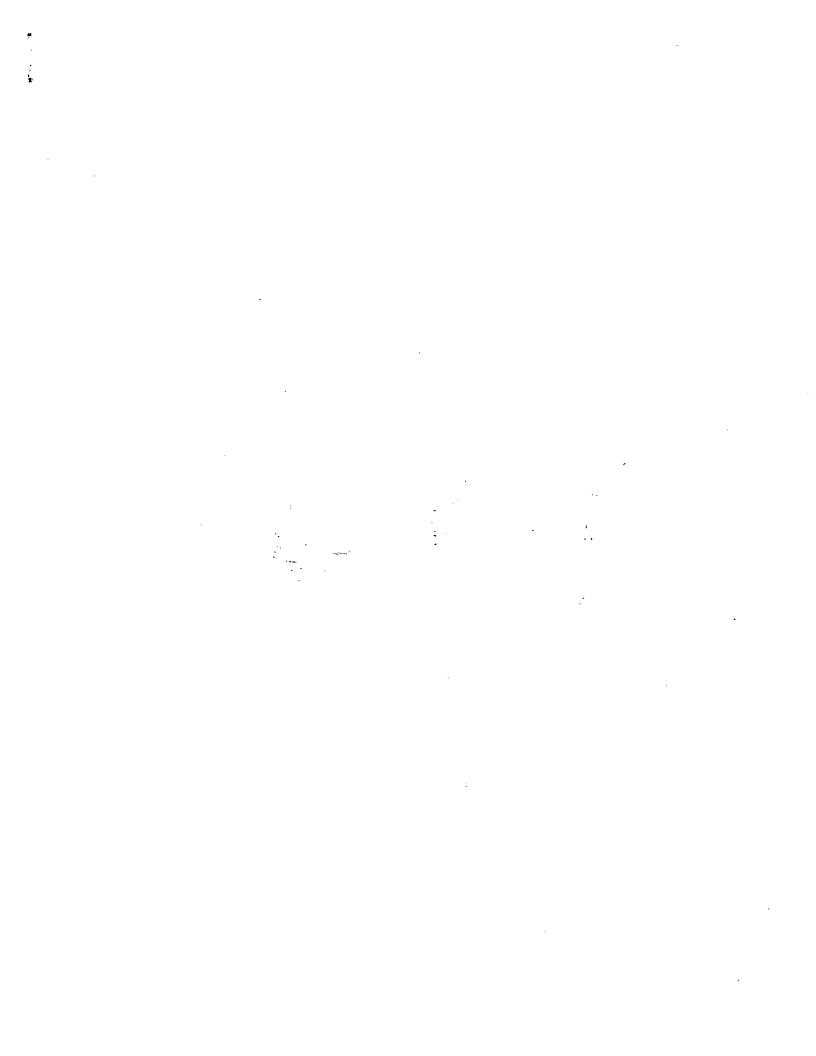
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Search completed: March Job time: 31.3333 secs

17, 2003, 12:08:56

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Best Local Similarity
Matches 5; Conser
                                                                                                              Differentiation of cells in culture (partic. for tissues or for embryogenesis and/or organogenesis) is promoted by adding to the culture medium at least one lipid transfer protein (LTP) or its analogue. LTP are used to produce somatic plant embryos from somatic cell cultures in vitro, esp. of vine cells (including transformed cells). They can also be used in other biological systems where lipid transfer/differentiation is required. LTP calliduce differentiation even under otherwise non-permissive conditions (presence of auxin). LTP is esp. one of the four proteins given in AAR56849-52, and is esp. derived from the same species as the cells being cultured. LTP from carrot, spinach, millet, maize, barley or rape can also be used (see AAR56853-58).
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                                                                                             Sequence
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Pred. No. 1.1e+02;
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Perfect score:
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6865,	Sequence 6869, Ap	Sequence 4, Appli	Sequence 3, Appli	Sequence 2, Appli	Sequence 153, App	Sequence 1032, Ap	Sequence 361, App	Sequence 45449, A	Sequence 372, App	e 708	42,		12,	10	9	Sequence 13, Appl	Sequence 7, Appli	Sequence 8, Appli	Description

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ALIGNMENTS

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-8
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US-09-855-754-8
Sequence 7, Application US/09855754
Publication No. US20020192237A1
GENERAL INFORMATION:
APPLICANT: BOURSACY-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
                                                                                                                                                                                                                                                                                                                                                                     Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, AND IN TITLE OF INVENTION: BORDETELLA PARAPPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS FILE REPERBNCE: 03495-0206-00000

CURRENT FILING DATE: 2001-09-10

CURRENT FILING DATE: 2001-09-10

PRIOR RAPLICATION UNMBER: 05/206,969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
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nes 5; Conserv
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Publication No. US20020192237A1
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SEQ ID NO 13
LENGTH: 51
         APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
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FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR PLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEO ID NOS: 24
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PRIOR FILING DATE: 2000-05-25
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                                                                                                                                                                                                                                                                                                                                     13 GGAVP 17
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wes 5; Conserv
  REFERENCE:
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03495-0206-00000
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APPLICANT: BOUSAUX-EUDE, CAROLINE
APPLICANT: BOUSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OR INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
CURRENT FILING DATE: 2010-99-10
CURRENT APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR PRIO
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CURRENT FILING DATE: 2000-09-10

PRIOR APPLICATION NUMBER: 05/206,969

PRIOR APPLICATION NUMBER: 60/206,969

PRIOR FILING DATE: 2000-05-25
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TYPE: PRT
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CURRENT FILING DATE: 2001-09-10
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; ORGANISM: Bordetella bronchiseptica US-09-855-754-12

TYPE: PRT

ENGTH:

SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 12

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; ORGANISM: Zea mays
US-09-950-933A-42
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; LENGTH: 61
; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-11
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Best Local Similarity
Stranger 5; Conserver
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Patent No. Usave
Patent INFORMATION:
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TITLE OF INVENTION: Antimicrobial Peptides and
TITLE OF INVENTION: Use
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CURRENT FILING DATE: 2001-09-10
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APPLICANT: Navarro, Pedro
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TITLE OF INVENTION:
FILE REFERENCE: 0349
                                                                                                                                                                                                                   SOFTWARE: FastSEQ for
                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 35718/238472
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                                                                                                                                TYPE: PRT
                                                                                                                                                      Q ID NO 42
LENGTH: 96
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D. US20020166141A1
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10. US20020192237A1
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                                                                                                                                                                                                                Windows Version 4.0
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Pred. No.
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      Score 27;
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US-09-764-869-708
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Best Local S
Matches 5
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                                                                                              SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 372 LENGTH: 133
                                                                                                                                                                                                                                                                                                                                                            GENERAL
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APPLICANT: Rosen et
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Matches 5; Conserv
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                                                                                                                                                                                               CURRENT APPLICATION NUMBER: CURRENT FILING DATE: 2001-0
                                                                                                                                                                                                                                         APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206Alel Polynucleotides from Atherogenic Cells a
TITLE OF INVENTION: Thereby
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/764,869
CURRENT FILING DATE: 2001-01-17
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TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC007
                                                                                                                                                                              PRIOR APPLICATION NUMBER: USSN 60/208,427
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NUMBER OF SEQ ID NOS: 2442
                                                                                                                                                               PRIOR FILING DATE:
                                                                                                                                                                                                                             FILE REFERENCE: 21402-013 (Cura-313)
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NAME/KEY: SITE
LOCATION: (68)
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                                                                  ORGANISM: Homo sapiens
                                                                                    TYPE: PRT
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OTHER INFORMATION:
                     NAME/KEY: VARIANT
LOCATION: (118)
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LOCATION: (83)
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ION: (118)
INFORMATION: wherein Xaa may be any one of Asp or Glu
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Conley, Pamela
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S: 2125
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CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR APPLICATION NUMBER: PCT/US01/00667
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US-09-864-761-45449
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                                                                                                                                                                                                                      SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 45449
LENGTH: 135
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PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF TELET TO VIEW DATE: 2001-01-29
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR APPLICATION NUMBER: PCT/US01/00665
OTHER INFORMATION: MAP TO AL161422.3
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.54
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.52
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.63
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                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
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8 GGAVP 12
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00663
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00662
FILING DATE: 2001-01-30
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 60/234,687 FILING DATE: 2000-09-21
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; ORGANISM: Homo US-09-867-550-1032
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PRIOR APPLICATION NUMBER: US/09/975,719

PRIOR APPLICATION NUMBER: US 09/199,637

PRIOR APPLICATION NUMBER: US 60/066,517

PRIOR APPLICATION NUMBER: US 60/066,517

PRIOR FILING DATE: 1997-11-25

NUMBER OF SEQ ID NOS: 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Вb
                                                                                                                                                                                                                                                                                                                                                                                                US-09-867-550-1032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-975-719-361
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                                 SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1032
LENGTH: 179
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                          Sequence 1032, Application US/09867550 Patent No. US20020082206A1
                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQ ID NOS: 437

SOFTWARE: FRATSEQ for Windows Version 4.0
SEQ ID NO 361

LENGTH: 167

TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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                                                                                                                                                      FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
                                                                                                                                                                                                       APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206Alel Polynucleotides from Atherogenic Cells
TITLE OF INVENTION: Thereby
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local :
                                                                                                     PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Ausubel, Frederick M.
APPLICANT: Rahme, Laurence G.
TITLE OF INVENTION: VIRULENCE-ASSOCIATED NUCLEIC ACID
TITLE OF INVENTION: SEQUENCES AND USES THEREOF
                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                        APPLICANT:
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                                                                                                                                                                                                                                                                                                                          APPLICANT: Leach,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.82 OTHER INFORMATION: SWISSPROT HIT: Q09289, EVALUE 5.90e+00 OTHER INFORMATION: EST_HUMAN HIT: W56629.1, EVALUE 4.00e-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    39 GGAVP 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity les 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  77 GGAVP 81
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5; Conserv
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Conley, Pamela
Law, Debbie
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               sapiens
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Pred. No.
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Pred. No.
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75;
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Query Match

100.0%;

Score

27;

DB 10;

Length 179;

Best Local Similarity 100.0%; Pred. No. 1e+02; Matches 5; Conservative 0; Mismatches

0;

Indels

0;

Gaps

0

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RESULT 15
US-09-759-847-2
Sequence 2, Application US/09759847
Patent No. US20020082410A1
GENERAL INFORMATION:
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Best Local Similarity
""" hes 5; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Mycobacterium tuberculosis US-09-791-171-153
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US-09-791-171-153
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: ROSENKRANDS, Ida
APPLICANT: WELDINGH, KARIN
APPLICANT: FLORIO, Walter
TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
FILE REFERENCE: 670001-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/791,171
CURRENT FILING DATE: 2001-02-20
PRIOR APPLICATION NUMBER: 09/050,739
PRIOR FILING DATE: 1998-03-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 1277/97
PRIOR FILING DATE: 1997-11-10
PRIOR APPLICATION NUMBER: 60/044,624
PRIOR FILING DATE: 1997-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/070,488
PRIOR FILING DATE: 1998-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 0376/97
PRIOR FILING DATE: 1997-04-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: ANDERSEN, Peter APPLICANT: NIELSEN, Rikke
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 266
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                          132 GGAVP 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     161 GGAVP 165
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ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII (text)
                                                                                                                                                                                                     NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                        TITLE OF INVENTION:
                                                                                                                                                                                                                                   AL INFORMATION: Insulin Promoter Factor, and Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION
                                                                                                                              ADDRESSEE: LAHIVE & COCKFIELD STREET: 60 State Street CITY: Boston STATE: MA
                                                                                                                 COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RASMUSSEN, Peter Birk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
nilarity 100.0%;
Conservative 0
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Pred. No. 1.5e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 266;
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TYPE: amino acid

popology: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO:

US-09-759-847-2
 밁
                          QY ... 1 GGAVP 5
                                                               Best Local Similarity
Matches 5; Conserv
                                                                                                 Query Match
                                                                                                                                                                                                                                                   TELEPHONE: (617)
TELEFAX: (617) 2:
INFORMATION FOR SEQ ID NO:
246 GGAVP 250
                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 09/031,898
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: ONI-004
TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/759,847
ETLING DATE: 12-Jan-2001
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 284 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA
                                                               100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                     227-5941
                                                                 0;
                                                               Score 27; DB 10;
Pred. No. 1.6e+02;
); Mismatches 0;
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                                                                                             Length 284;
                                                             Indels
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Search completed: March 17, 2003, 12:21:35
Job time: 12 secs

Gaps

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Title:
Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                          SEQ25-AV
27
PIR_73:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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Gapop 10.0 , Gapext 0.5
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4 4 5	41 42 43	38 40 40	34 35 36 37	30 31 33
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reduct	propr	mbrane L prote L prote	note	-28 -28 -28
C t C	prote prane trans	brane prote prote	T Ky	-5- -5- [1m

ALIGNMENTS

RESULT 1

\$39034
C;Species: Vitis sp. (grape)
C;Species: Vitis sp. (grape)
C;Species: Vitis sp. (grape)
C;Date: 25-Dec-1994 #sequence_revision 19-Apr-1996 #text_change 17-Mar-1999
C;Accession: S39034
R;Coutos-Thevenot, P.; Jouenne, T.; Maes, O.; Guerbette, F.; Grosbois, M.; le Caer, J
Eur. J. Blochem. 217, 885-889, 1993
A;Title: Four 9-kDa proteins excreted by somatic embryos of grapevine are isoforms of A;Reference number: S39034; MUID:94039144; PMID:8223644
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-38 <PGR>
A;Residues: 1-38 <PGR>

0; Gaps 0;	Ov 1 GCAVP 5
	Query Match 100.0%; Score 27; DB 2; Length 92; Best Local Similarity 100.0%; Pred. No. 59; Matches 5; Conservative 0; Mismatches 0; Indels 0;
):g404800	A;Status: preliminary A;Molecule type: DNA A;Residues: 1-92 <bro> A;Cross-references: EMBL:L11597; NID:g404798; PIDN:AAA26478.1; PID:g404800</bro>
lte-specific !	R;Brown, D.P.; Idler, K.B.; Backer, D.M.; Donadio, S.; Katz, L. Mol. Gen. Genet. 242, 185-193, 1994 A;Title: Characterization of the genes and attachment sites for site-specific integra A;Reference number: S41722; MUID:94211208; PMID:8159169 A.Accession: S41723
?-Oct-1999	RESULT 2 \$41723 Synthetical protein - Saccharopolyspora erythraea C; Species: Saccharopolyspora erythraea C; Species: Saccharopolyspora erythraea C; Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 22-Oct-1999 C; Accession: \$41723
	Qy 1 GGAVP 5 Db 21 GGAVP 25
0; Gaps 0;	Query Match 100.0%; Score 27; DB 2; Length 38; Best Local Similarity 100.0%; Pred. No. 25; Matches 5; Conservative 0; Mismatches 0; Indels 0;

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RESULT 4
$16054
hypothetical protein 2 - p
C; Species: phage phi-C31
C; Date: 20-Feb-1995 #seque
C; Accession: $16054
R; Rausch, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hypothetical prote
C;Species: phage pl
C;Date: 22-Nov-199;
C;Accession: S2256
                                                                                                                                                                                       awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki DNA Res. 6, 83-101, 1999

A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, A;Reference number: A72450; MUID:99310339; PMID:10382966

A;Accession: E72710
                                                                                                                                                                                                                                                                                                      hypothetical protein APE1100 - Aeropyrum pernix (strain C;Species: Aeropyrum pernix C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text
                                                                                                                                                                                                                                                                                                                                                            RESULT
E72710
                                                                                                        A; Cross-references: DDBJ:AP000060; A; Experimental source: strain K1
                                                                                                                                     A; Molecule type: DNA
A; Residues: 1-107 <KAW>
                                                                                                                                                                                                                                                  R;Kawarabayasi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka,
                                                                                                                                                                        A; Status: preliminary
                                                                                                                                                                                                                                                                                          C; Accession: E72710
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A;Molecule type: DNA
A;Residues: 1-100 <RAU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       submitted to the EMBL Data A; Reference number: S16053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Rausch, H.; Lehmann, M.
Nucleic Acids Res. 19, 5187-5189, 1991
A;Title: Structural analysis of the actinophage
A;Reference number: S22566; MUID:92020203; PMID:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Start
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:X57036; NID:g14810; PIDN:CAA40352:1; PID:g579069
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A; Residues: 1-100 < RAU>
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Date: 22-Nov-1993 #sequence_revision
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Pred. No. 64;
D; Mismatches
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R:Colmenero-Flores, J.M.; Campos, F.; Garciarrubio, Plant Mol. Biol. 35, 393-405, 1997
A;Title: Characterization of Phaseolus vulgaris cDNz A;Reference number: 217404; MUID:98009976; PMID:9344 A;Accession: T12079
A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: mRNA
                                                                                                         non-specific lipid transfer protein LTP-24, drought and ABA induced - kidne C;Species: Phaseolus vulgaris (kidney bean)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 21-Jul-2000
C;Accession: T12079
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C;Species: Rhodobacter capsulatus
C;Date: 24-Mar_1999  #sequence_revision 24-Mar-1999  #text_change 08-Oct-1999
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T03489
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C;Superfamily: phospholipid transfer protein
C;Keywords: lipid transport; stress-induced
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A;Title: Identification and expression of water stress- and abscisic acid-regulated A;Reference number: S71560; MUID:96400036; PMID:8806412
A;Accession: S71564
                                                                                                         A; Map position: 1
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C; Genetics:
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Residues: 1-116 < VLC>
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                                                                                                                                  EMBL: AF010496;
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A;Status. F1-
A;Status type: DNA
A;Molecule type: DNA
A;Residues: 1-145 <WIL>
A;Cross-references: EMBL:Z83318; PIDN:CAB05900.1; GSPDB:GN00022;
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A; Cross-references: EMBl
A; Experimental source: v
C; Genetics:
                                                                                                                                                                                                                                                          hypothetical protein F55B11.4 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
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A;Experimental source: strain 1021, megaplasmid pSymbl
R;Gallbert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, Pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T.
L.; Hyman, R.W.; Jones, T.
Science 293, 668-672, 2001
Science 293, 668-672, 2001
A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, Rebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Weils, D.H.; Wong, K.; Yeh, K.
A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: 196039; MUID:21368234; PMID:11474104
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C;Superfamily: phospholipid transfer protein
C;Keywords: lipid transport; stress-induced;
                                                                                                                                                      submitted to the EMBL Data Library, A; Reference number: Z19601 A; Accession: T22693
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A;Title: The complete sequence of the 1.683-kb pSymB megaplasmid A;Reference number: A95842; MUID:21396508; PMID:11481431
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A;Accession: A95965
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A;Residues: 1-132 <KUR>
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Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-200
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                                                                CESP:F55B11.4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                from
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              magaplas
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RESULT 12
B69165
                                                                                                                                                                                                                                                                       R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, Qiu, D.; Spadafora, R.; Vicalire, R.; Waing, Y.; Wierzbowski, J.; Gibson, R.; Jiwani ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 1997
A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: 1 A;Reference number: A69000; MUID:98037514; PMID:9371463
A;Accession: B69165
                                                                                                                                                                                                                                                                                                                                                                                                                   endonuclease III homolog - Methanobacterium thermoautotrophicum (strain Delta C; Species: Methanobacterium thermoautotrophicum C; Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 22-Oct-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Accession: S46044
R;Entlan, K.D.; Koetter, P.; Rose, M.; Becker, J.; Grey, M.; L1, Z.; Niegemann, E.; S.; Gruenbein, R.; Hedges, D.; Kiesau, P.; Korol, S.; Krems, B.; Proft, M.; Siegers, submitted to the Protein Sequence Database, August 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
S46044
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Best Local Similarity
Thes 5; Conserv
                                                                                                                                                 A; Gene:
                                                                                                                                                                                A; Experimental source:
                                                                                                                                                                                  A;Cross-references: GB:AE000833; GB:AE000666; A;Experimental source: strain Delta H
                                                                                                                                                                                                                       A; Residues: 1-175 <MTH>
                                                                                                                                                                                                                                      A; Molecule type: DNA
                                                                                                                                                                                                                                                      A; Status: preliminary; nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                       C; Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references:
A;Map position: 2R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Gene: SGD:UMP1; MIPS:YBR173c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: EMBL:Z36042; NID:g536519; A;Experimental source: strain S288C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-148 <ENT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Reference number: A; Accession: S46044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein YBR173c - yeast (Saccharom, N;Alternate names: hypothetical protein YBR1234 C;Species: Saccharomyces cerevisiae C;Date: 26-Aug-1994 #sequence_revision 09-Sep-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
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                                                                       Matches
                                                                                       Query Match
Best Local 9
                                                                                                                                                                  Genetics
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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 63
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nes 5; Conserv
                                  1 GGAVP 5
                                                                                                                                               MTH496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GGAVP 5
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 GGAVP
                                                                                                                                                                                                                                                                                                                                                                                                         B69165
                                                                       Similarity
5; Conserv
67
                                                                     100.0%; ilarity 100.0%; Conservative (
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ilarity 100.0%;
Conservative (
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                                                                   Score 27; DB
Pred. No. 1.1
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 27; DE
Pred. No. 95;
); Mismatches
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                                                                                                                                                                                                                                                        sequence not shown;
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                                                                       1.1e+02;
hes 0;
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                                                                                                                                                                                               NID: g2621559; PIDN: AAB85002.1;
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                                                                                                    Length 175;
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                                                                     Indels
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RESULT A33164

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probable rocD - Mycobacterium tuberculosis
C;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C;Date: 18-70704
R;Cole, S:T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.;
R;Cole, S:T.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Hc
; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Skelton, S.; Squares, S.;
C; Accession: A03020
R; Inouye, S.; Noguchi, M.; Sakaki, Y.; Takagi, Y.; Miyat Proc. Natl. Acad. Sci. U.S.A. 82, 3154-3158, 1985
A; Title: Cloning and sequence analysis of cDNA for the lateractic number: A03020; MUID:85216460; PMID:3858813
                                                                                                              C;Species: Aequorea victoria
C;Date: 28-May-1986 #sequence_revision 28-May-1986 #text_change 26-May-2000
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A; Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barra, Title: Deciphering the biology of Mycobacterium tuberculosis from A; Reference number: A70500; MUID:98295987; PMID:9634230
A; Accession: B70704
A; Status: preliminary; nucleic acid sequence not shown; translation A; Molecule type: DNA
A; Residues: 1-181 <COL>
                                                                                                                                                                         aequorin precursor -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Gene:
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A;Experimental source: strain H37Rv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
B70704
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Gene 121, 397-398, 1992
A;Title: Sequence of a novel cl
A;Reference number: JC1395; MU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hypothetical protein walter - chicken
N;Alternate names: homeotic protein Hox-3.1 homolog; hypothetical 13.1K protein
C;Species: Gallus gallus (chicken)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 21-Jul-2000
C;Accession: A33164; JC1395
R;Goldberg, G.S.
                                                                                                                                                                                                   AQJENV
                                                                                                                                                                                                                      RESULT 15
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A; Residues: 1-124 <GO2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Experimental source: strain Leghorn R:Goldberg, G.S.; Kaczmarczyk, W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    submitted to the Protein Sequence Database, March 1991
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A; Residues: 1-179 <G
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Best Local S
Matches 5
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                                                                                                                                                                                                                                                                                            37
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5; Conser
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5; Conserv
                                                                                                                                                                                                                                                                                                                                                                          100.0%;
ilarity 100.0%;
Conservative C
                                                                                                                                                                         hydromedusa (Aequorea victoria)
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Pred. No. 1.2
0; Mismatches
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Pred. No.
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                                                                        Y.; Miyata, T.; Iwanaga, S.; Miyata,
                       for the luminescent protein aequorin.
                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                    Length 181;
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Search completed: March Job time: 16.3333 secs

17,

2003, 12:11:12

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F:111-143/Domain: calmodulin repeat homology <EF2>
F:147-179/Domain: calmodulin repeat homology <EF3>
F:347-179/Domain: calmodulin repeat homology <EF3>
F:31,33,35,37,42/Binding site: calcium (Asp, Asn, F:124,126,128,130,135/Binding site: calcium (Asp, Asp, F:160,162,164,166,171/Binding site: calcium (Asp, Asp,
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                                                                                                                                                                                                                                                                                                                                                                                           n, and mercaptoethanol is necessary to regenerate aequorin C;Superfamily: calmodulin; calmodulin repeat homology C;Keywords: calcium binding; EF hand; luminescence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:M11394; NID:g155658; PIDN:AAA27719.1; PID:g155659; GB:L29571; A;Experimental source: clone AQ440
G;Comment: The precise function of residues 1-7 is not known.
C;Comment: The authors suggest that there are three calcium-binding sites, and that C;Comment: Trace amounts of calcium ion trigger the oxidation of the functional chrones.
                                                                                                                                                                                                                                                                                                                                      F;8-196/Product: aequorin #status predicted <MAT>F;18-50/Domain: calmodulin repeat homology <EF1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C; Comment: Cysteine residues appear to be critical to the ability of this photoprotei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ts a blue light.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
                                                                                                                           Query Match
Best Local Similarity
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                                                                                                     Matches
192 GGAVP
                                                  1 GGAVP 5
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                                                                                                       Conservative
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                                                                                                     0
                                                                                                                           Score 27;
Pred. No.
                                                                                                     Mismatches
                                                                                                                                                    DB 1;
                                                                                                                           3e+02;
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Asn, Ala, Glu) #status predicted
Ser, Gln, Glu) #status predicted
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Run on:

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Maximum DB
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Maximum Match 100%
Listing first 45 summaries
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                                     Submitted (JAN-1999) to the SWISS-PROT data bank.

-I- FUNCTION: PLANT NONSPECIFIC LIPID-TRANSFER PROTEINS TRANSFER PHOSPHOLIPIDS AS WELL AS GALACTOLIPIDS ACROSS MEMBRANES. MAY PLAY A ROLE IN WAX OR CUTIN DEPOSITION IN THE CELL WALLS OF EXPANDING EPIDERMAL CELLS AND CERTAIN SECRETORY TISSUES.

-I- SIMILARITY: BELONGS TO THE PLANT LTP FAMILY.
                                                                                                                                               Conti A., Baroglio C., Monza M., Ortolani C., Scibola Giuffrida M.G., Fortunato D., Farioli L., Pravettoni Ansaloni R., Napolitano L., Pastorello E.A.;
                                                                                                                                                                                                                                                                                                                                               Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Rosales; Rosaceae; Amygdaloideae; Prunus.
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Nonspecific
                             HSSP; P19656; 1MZM.
                                                                                                                          protein.
                                                                                                                                                                                                              "Determination of the primary structure from apricot (Prunus armeniaca).";
J. Chromatogr. B 756:123-129(2001).
                                                                                                                                                                                                                                                                                                                                                                               Prunus armeniaca (Apricot).
Eukaryota; Viridiplantae; S
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              interPro;
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MEDLINE-94039144; PubMed-8223644;
Coutos-Thevenot P., Jouenne T., Maes O.,
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"FOUR 9-KDA PROTEINS EXCRETED BY SOMALIC EMDRYOS OF GRAPEVINE ARE
ISOCORMS OF 11pld-transfer proteins.";
EUR. J. BIOCHEM. 217:885-889(1993).
1- FUNCTION: PLANT NONSPECIFIC LIPID-TRANSFER PROTEINS TRANSFER
PHOSPHOLIPIDS AS WELL AS GALACTOLIPIDS ACROSS MEMBRANES. MAY PLAY
A ROLE IN WAX OR CUTIN DEPOSITION IN THE CELL WALLS OF EXPANDING
EPIDERMAL CELLS AND CERTAIN SECRETORY TISSUES.
1- SIMILARITY: BELONGS TO THE PLANT LIP FAMILY.

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Pastorello E.A., Farioli L., Pravettoni V., Giuffrida Ortolani C., Fortunato D., Trambaioli C., Scibola E., Robino A.M., Conti A.;
                                                                                                                                                                                                                                                    SMART
                                                                                                                                                                                                                                                                   Pfam; PF00234; tryp_alpha_amyl; PRINTS; PR00382; LIPIDTRNSFER.
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SMART; SM00499; AAI;
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Pfam; PF00234; tryp_alpha_amyl; 1.
PRINTS; PR00382; LIPIDTRNSFER.
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SIMILARITY: BELONGS TO THE PLANT LTP FAMILY.
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Nonspecific lipid-transfer
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Pastorello E.A., Farioli L., Pravettoni V.,
Monza M., Baroglio C., Scibola E., Ansaloni
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eurosids I; Rosales; Rosaceae,
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Nonspecific lipid-transfer protein 1 (
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Pastorello E.A., (
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Prunus persica (Peach).
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Ortolan1 C., Baroglic
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Monza M., Napolitano L.,
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16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
16-OCT-2001 (Rel. 40, Last annotation update)
Nonspecific lipid-transfer protein precursor
Pyrus communis (Pear)
Eukaryota; Viridiplantae; Streptophyta; Embry,
Spermatophyta; Magnoliophyta; eudicotyledons;
eurosids I; Rosales; Rosaceae; Maloideae; Pyr
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Submitted (APR-2000) to the EMBL/GenBank/DDBJ-I-FUNCTION: PLANT NONSPECIFIC LIPID-TRANSFER
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Scheurer S., Wangorsch A., Haustein
"Cloning of a cDNA encoding a lipid
allergen from Malus domestica.";
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16-OCT-2001
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                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00499; AAI; 1.
PROSITE; PS00597; PLANT_LTP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF00234; tryp_alpha_amyl;
                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro;
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                                                                                                                                                                                                                                                                                                                                                       Lipid-binding;
                                                                                                                                                                                                                                                                                                                                                                                          PRINTS;
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A ROLE IN WAX OR CUTIN DEPOSITION IN THE CELL WALLS OF EXPANDING
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; AJ277164; CAB;
; P19656; 1MZM.
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5; Conserv
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IPR000528;
IPR001768;
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RIVER PROTEIN.

BY SIMILARITY.

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BY SIMILARITY.
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Pred. No. 33;
Mismatches
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nsfer protein
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eurosids I; Rosal NCBI_TaxID=23211;

eptophyta; Embryophyta; Tracheophyta;
eudicotyledons; core eudicots; Rosid

(LTP) (Allergen

Pyrus

entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).

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SIMILARITY: BELONGS TO THE

EPIDERMAL CELLS AND CERTAIN SECRETORY TISSUES SIMILARITY: BELONGS TO THE PLANT LTP FAMILY.

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Best Local
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              regulated genes in a drought-tolerant sunflower genotype.";
Plant Mol. Biol. 31:819-829(1996).
-i- EUNCTION: PLANT NONSPECIFIC LIPID-TRANSFER PROTEINS TRANSFER
PHOSPHOLIPIDS AS WELL AS GALACTOLIPIDS ACROSS MEMBRANES. MAY
                                                                                                                                                                                                             15-JUL-1999 (Rel. 38, Created)
15-JUL-1999 (Rel. 38, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
15-JUL-1999 (Rel. 38, Last annotation update)
Nonspecific lipid-transfer protein precursor (LTP) (NSLTP) (SDI-9).
Helianthus annuus (Common sunflower).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Asteridae; euasterida; I; Asterales; Asteraceae; Asteroideae;
Heliantheae, Holianthus
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SEQUENCE
                                                                                              Ouvrard O., Cellier F., Casse-Delbart F.;
                                                                                                       MEDLINE=96400036; PubMed=8806412;
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                                                          "Identification and expression of water stress-and abscisic "Identification and expression of water stress-and abscisic
                                                                                                                                             TISSUE-Leaf
                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                       Heliantheae;
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PROSITE; PS00597; PLANT_LTP; 1
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InterPro; IPR007528; Plant_Irp.
InterPro; IPR007568; Try2-amyl_inhbtr.
Pfam; PF00234; tryp_alpha_amyl; 1.
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SEQUENCE FROM N.A.
SCHOURCE F., Wangorsch A., Haustein D., Vieths S.;
Scheurer S., Wangorsch A., Haustein D., Vieths S.;
"Cloning of a cDNA encoding a lipid transfer protein as allergen from Pyrus communis.";
allergen from Pyrus communis.";
Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
-I- FUNCTION: PLANT NONSPECIFIC LIPID-TRANSFER PROTEINS.
                                                                                                                                                                                          NCBI_TaxID-4232;
                                                                                                                                                                                                                                                                                                                                                         NLTP_HELAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lipid-binding;
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   PHOSPHOLIPIDS
A ROLE IN WAX
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BY SIMILARITY.
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                                                                                                     Tousch D., Lamaze T., Dupuis
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Q43017;
Q1-NOV-1997
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Q1-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
01-NOV-1997 (Rel. 35, Last annotation update)
Nonspecific lipid-transfer protein 1 precursor
Prunus dulcis (Almond) (Prunus amygdalus).
Eukaryota; Viridiplantae; Streptophyta; Embryop
Spermatophyta; Magnoliophyta; eudicotyledons; ceurosids I; Rosales; Rosaceae; Amygdaloideae; PNCBI_TaxID-3755;
                                         EMBL;
                                                                                                      use by non-profit institutions as long modified and this statement is not removed entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                               Esteban M.S.;
Submitted (MAY-1996) to the EMBL/GenBank/DDBJ databases.

-I- FUNCTION: PLANT NONSPECIFIC LIFLID-TRANSFER PROTEINS TRANSFER PHOSEPHOLIPIDS AS WELL AS GALACTOLIPIDS ACROSS MEMBRANES. MAY PLAY A ROLE IN WAX OR CUTIN DEPOSITION IN THE CELL WALLS OF EXPANDING EPIDERWAL CELLS AND CERTAIN SECRETORY TISSUES.

-I- SIMILARITY: BELONGS TO THE PLANT LTP FAMILY.
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                    InterPro;
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InterPro; IPR000528; Plant_Imp.
InterPro; IPR001768; Try/amyl_inhbtr.
InterPro; IPR001768; Try/amyl; 1.
Pfam; PF00234; tryp_alpha_amyl; 1.
PRINTS; PR00382; LIPIDTRNSFER.
SMART; SM00499; AAI; 1.
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HSSP; P19656;
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European Bioinformatics Institute
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llarity 100.0%;
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institutions as long as its content
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InterPro; IPR003528; Plant_LTP.
InterPro; IPR001768; Try/amyl inhbtr.
Pfam; PF00234; tryp_alpha_amyl; 1.
PRINTS; PR00382; LIPIDTRNSFER.
SMART; SM00499; AAI; 1.
PROSITE; PS00597; PLANT_LTP; 1.
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eurosids I; Rosales; Rosaceae; Amygdaloideae;
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PROSITE; PS00597; PLANT_LTP;
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EMBL; Z36042; CAA65134.1; -
PIR; S46044; S46044
SGD; S0000377; UMP1.
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Niegemann E., Schenk-Groeninger R., Servos J., Wehn
Wolter R., Brendel M., Bauer J., Braun H., Dern K.,
Gruenbein R., Hedges D., Kiesau P., Korol S., Krems
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-98150854; PubMed-9491890; Ramos P.C., Hoeckendorff J., Johnson E.S., Va "Umplp is required for proper maturation of the becomes its substrate upon completion of the
                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long modified and this statement is not removed entities requires a license agreement (See
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Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetees;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
NCBI_TaxID-4932;
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MEDLINE-86077721; PubMed-2866797;
Charbonneau H., Walsh K.A., McCann R.O., Prendergast F.G.,
Cormier M.J., Vanaman T.C.;
"Amino acid sequence of the calcium-dependent photoprotein aequorin.";
Biochemistry 24:6762-6771(1985).
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P07164;
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                                                                                                                                                                             PROSITE;
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"A C-terminal proline is required
binding photoprotein, aequorin.",
FEBS Lett. 295:63-66(1991).
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Aequorea victoria (Jellyfish)
Eukaryota; Metazoa; Cnidaria;
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Nomura M., Inouye S., Ohmiya Y.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGENERATE AEQUORIN FROM APOAEQUORIN.
SIMILARITY: BELONGS TO THE EF-HAND SUPERFAMILY. AEQUORIN FAMILY.
SIMILARITY: CONTAINS 3 EF-HAND CALCIUM-BINDING DOMAINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: CA(++)-DEPENDENT BIOLUMINESCENCE PHOTOPROTEIN. DISPLAYS AN EMISSION PEAK AT 470 NM (BLUE LIGHT). TRACE AMOUNTS OF CALCIUM ION TRIGGER THE INTRAMOLECULAR OXIDATION OF THE CHROMOPHORE, COELENTERAZINE INTO COELENTERAMIDE AND CO(2) WITH THE CONCOMITANT EMISSION OF LIGHT.

CONCOMITANT EMISSION OF THE DISULFIDE BOND IS NECESSARY TO
                                                                                                                                                                                                                                                                                             A26623; A26623.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SWISS-PROT entry is copyright. It is produced through
een the Swiss Institute of Bioinformatics and the EW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          =94009705; PubMed=8405461;
                                                                                                                                                                        PS00018; EF_HAND; 3.
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                                                                                                                                               Calcium-binding;
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s of complementary DNAs
    AEQUORIN
MAY INTER
MAY INTER
MAY INTER
EF-HAND 1
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                                                                                                                                             Luminescence; Repeat.
INTERACT WITH THE CHROMOPHORE.
INTERACT WITH THE CHROMOPHORE.
INTERACT WITH THE CHROMOPHORE.
HAND 1 (BY SIMILARITY).
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d for bioluminescence
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DNAs encoding
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bond in aequorin
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RESULT 13
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Best Local
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                                                                                                            MUTAGENESIS OF PRO-196.
MUTAGENESIS OF PRO-196.
MEDLINE-92111761; PubMed=1765170;
Momura M., Inouye S., Ohmiya Y., T
"A C-terminal proline is required
"A C-terminal proline is aequorin.";
                                    MEDLINE=94009705; PubMed=8405461;
Ohmiya Y., Kurono S., Ohashi M.,
"Mass spectrometric evidence for
regeneration.";
FEBS Lett. 332:226-228(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-UCI-200.
Aequorin 2 precursor.
Aequorea victoria (Jellyfish).
Aequorea victoria (Jellyfish).
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CA_BIND
CA_BIND
DISULFID
SEQUENCE
  MEDLINE=20289815;
Head J.F., Inouye
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MEDLINE-87185437; PubMed-2882777;
Prasher D.C., McCann R.O., Longiaru M., Cormie
                                                                                       DISULFIDE
                                                                                                         binding photoprotein, aequo FEBS Lett. 295:63-66(1991).
                                                                                                                                                                                      aequorin
                                                                                                                                                                                                                                                        Charbonneau H., Walsh K.A., McCann Cormier M.J., Vanaman T.C.;
                                                                                                                                                                                                                                                                           SEQUENCE OF 8-196.
MEDLINE=86077721;
                                                                                                                                                                                                                                                                                                                                                                                  "Cloning and sequence aequorin.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Aequor
                   X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
                                                                                                                                                                                                                   MUTAGENESIS.
                                                                                                                                                                                                                                   "Amino acid sequence of the calcium-dependent photoprotein aequorin."; Biochemistry 24:6762-6771(1985).
                                                                                                                                                                                                                                                                                                        Biochemistry
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Miyata T., Tsuji F.I.;
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16-OCT-2001 (Rel.
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                                                                                                                                                                                                                                                                                                                  isotypes.";
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 PubMed=10830969;
S., Teranishi K.
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complementary DNAs
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 K., Shimomura
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he calcium-binding
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a disulfide
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VARIANT
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InterPro; IPR002048; EF-hand.
Pfam; PF00036; efhand; 3.
ProDom; PD000012; EF-hand; 1.
SMART; SM00054; EFh; 2.
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SIMILARITY: BELONGS TO THE EF-HAND SUPERFAMILY. AEQUORISIMILARITY: CONTAINS 3 EF-HAND CALCIUM-BINDING DOMAINS.
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PTM: THE REDUCTION OF THE DISULFIDE BOND IS NECESSARY TO
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G -R: 100% ACTIVITY LOSS.

G -R: 51% ACTIVITY LOSS.

G -R: NO ACTIVITY LOSS.

H -F: 100% ACTIVITY LOSS.

C -S: 33% ACTIVITY LOSS.

C -S: 52% ACTIVITY LOSS.

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EF-HAND 3 (BY SIMILARITY).

EF-HAND 4 (BY SIMILARITY).
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RESULT 15
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Best Local
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Q45461; 034670;
01-NOV-1997 (Rel. 3
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CA_BIND
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SEQUENCE FROM N.A.
STRAIN-ATCC 6633 / LH45;
MEDLINE-96074318; PubMec
                                                              Bacillus subtilis.
Bacteria; Firmicutes;
NCBI_TaxID=1423;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified and this statement is not removed entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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HSSP; P02592; 1EJ3.
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                                                                                                                    OPUBB OR PROW
                                                                                                                                  Choline transport
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART;
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SIMILARITY: BELONGS TO THE EF-HAND SUPERFAMILY. AEQUORIN FAMILY. SIMILARITY: CONTAINS 3 EF-HAND CALCIUM-BINDING DOMAINS.
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E; PS00018; EF_HAND;
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Similarity 100.0%;
5; Conservative
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metazoa; Cnidaria; Hydrozoa; Hydroida; Anthomedusae;
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/a Y., Blinks J.R., Inouye S., Tsuji F.
                                                                                                                                 35, Created)
39, Last sequence update)
41, Last annotation updat
system permease protein o
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EF-HAND 1 (POTENTIAL).

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EF-HAND 3 (POTENTIAL).

EF-HAND 4 (POTENTIAL).

BY SIMILARITY.

BY SIMILARITY.
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REDLINE-98044033; PubMed-9384377;

RA AZECTOR M.G., Bessleres P., Bolotin A.M., Alloni G.,

RA AZECTOR V., Bertero M.G., Bessleres P., Bolotin A., Borchert S.,

RA AZECTOR V., Bertero M.G., Bessleres P., Bolotin A., Borchert S.,

RA Borniss R., Boursier L., Brans A., Brunn M., Brignell S.C., Bron S.,

RA Borniss R., Boursier L., Brans A., Braunn V., Carter N.M.,

RA Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,

RA Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,

RA Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,

RA Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,

RA Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,

RA Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,

RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,

RA Joris B., Karamata D., Kasahara Y., Klaerr-Blanchard M., Klein C.,

RA Kulayashi Y., Koetter P., Koningstein G., Krogh S., Kumano M.,

RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,

RA Lee S.M., Levine A., Liu H., Masuda S., Mauel C., Medigue C.,

RA Medina N., Mellado R.P., Mizuno M., Moestl D., Nakai S., Noback M.,

RA Presecan E., Pujic P., Purnelle B., Royport G., Rey M., Reynolds S.,

RA Presecan E., Pujic P., Purnelle B., Royport G., Rey M., Reynolds S.,

RA Ra Setiguchi J., Sekowska A., Seror S.J., Serror F., Scoffone F.,

Sekiguchi J., Sekowska A., Seror S.J., Serror P., Sihn B.S., Soldo B.,

RA Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A.,

RA Viari A., Wambutt R., Wedler E., Wedler H., Waitzenegger T.,

Wihe Complete Genome Scovence of the Gram-rockitive backerstin Research R.,

Woohl S., Vandenbol M., Vannier F., Vata K.,

Yata A., Yata K.,

Yata A., Yata K.,

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                                                                                                                                                SubtiList; BG12634; opuBB.
InterPro; IPR000515; BPD_transp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Winters P., Wipat A., Yamamoto H., Yamane K., Yasumoto K., Yata K., Yoshida K., Yoshikawa H.F., Zumstein E., Yoshikawa H., Danchin A., "The complete genome sequence of the Gram-positive bacterium Bacillus".
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J. Bacteriol. 177:6874-6880(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBCELLULAR LOCATION: Integral membrane SIMILARITY: BELONGS TO THE BINDING-PROTE SYSTEM PERMEASE FAMILY. CYSTW SUBFAMILY.
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                                                                                                                                                                                                                                                                       U38418; AAB01533.1; -. AF008930; AAC14357.1; -.
                                                                                                                                                                                                                                  Z99121; CAB15377.1; -.
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PS00402; BPD_TRANSP_INN_MEMBR; 1.
Amino-acid transport; Transmembrane; Complete proteome. 23 43 POTENTIAL.
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f B., Kneip S., Boch J., Gade J., Meier-Wagner J.,
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밁 QΥ Matches Query Match Best Local TRANSMEM TRANSMEM TRANSMEM VARIANT VARIANT VARIANT VARIANT TRANSMEM 182 GGAVP 186 1 GGAVP Similarity 5; Conserv 72 128 150 180 Conservative 92 148 170 200 5 131 201 216 72 23163 100.0%; WW; POTENTIAL.

POTENTIAL.

V -> I (IN STRAIN LH45).

EL -> DV (IN STRAIN LH45).

A -> T (IN STRAIN LH45).

L -> V (IN STRAIN LH45).

LALLAF -> POSRHI (IN REF 1). 0 Score 27; Pred. No. AILAF -> PDSRHI (IN RÉF. A7915A2D22ABA58E CRC64; Mismatches DB 1; Length 217; Indels 1). 0; Gaps

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Search completed: March 17, 2003, 12:07:19 Job time: 9 secs

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Result
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Q91ed1 prunus pers
Q54077 saccharopol
Q26874 taenia cras
               091063 streptomyce
08y0x7 ralstonia s
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Q9t220 bacteriopha
Q37983 bacteriopha
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  01-MAY-2000
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                                       Q9S4W8;
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Submitted (JUL-2000) to the EMBL/GenBank/DDBJ EMBL; AB046032; BAB01614.1; -.
EMBL; AB046032; BAB01614.1; -.
EMBL; AB046032; BAB01614.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9N098;
                                                                                                                                                                                                                                                                                                                        Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
MCBI_TaxID-9541;
                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao K.,

Suzuki Y., Sugano S., Hashimoto K.;

"Isolation of full-length cDNA clones from macaque brain cDNA
                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15,
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42 GGAVP 46
  (TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 13,
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                                                    PRELIMINARY;
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Pred. No. 1.1e+02;
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0857JB;
01-JUN-2002 (TrEMBLrel. 2
01-JUN-2002 (TrEMBLrel. 2
01-JUN-2002 (TrEMBLrel. 2
Hypothetical 6.1 kDa prot
05JNBA0095C06.10.
                             01-NOV-1999
01-NOV-1999
01-JUN-2001
                                                                                                                                                                                                                                               Preston R., Kirchoff K., Kuit K., Baker J., Vi
Santos L., Cunnius D.M., Rodriguez S., Miller
Bahret A., King L., O'Shaughnessy A., Palmer L
McCombie W.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

MEDILINE-99296678; PubMed-10366527;

Manwaring N.P., Skurray R.A., Firth N.

"Nucleotide sequence of the F plasmid Plasmid 41:219-225(1999).

Plasmid 41:219-225(1999).

EMBL; AF106329; AA047182.1;
            OTG9
                                                                                                                                                                                                                   "Genomic sequence for Oryza sativa, Nipponbare strain, OSJNBA0095C06, from Chromosome 10, complete sequence."; Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases
                   Putative alternative
                                                                    Q9XEK1
  Dendrobium
                                                          Q9XEK1;
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SEQUENCE 6
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Eukaryota; Viridiplantae; Stra
Spermatophyta; Magnollophyta;
Ehrhartoideae; Oryzeae; Oryza
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01-OCT-2000 (TrEMBLrel.
01-MAR-2002 (TrEMBLrel.
01-JUN-2002 (TrEMBLrel.
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01-NOV-1996 (TrEMBLrel. 01, C
01-NOV-1996 (TrEMBLrel. 01, L
01-NOV-1998 (TrEMBLrel. 08, L
Hypothetical 9.5 kDa protein.
NCBI_TaxID=3760;
                                    Spermatophyta; Magnoliophyta; eurosids I; Rosales; Rosaceae
                                                                        Prunus persica (Peach).
Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                  Q9LED1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hypothetical protein SEQUENCE 83 AA; 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Localization and DNA sequence analysis of the tr (mtrII) of human cytomegalovirus."; Proc. Natl. Acad. Sci. U.S.A. 85:5709-5713(1988). EMBL; J03822; AAA66544.1; -.
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submitted (NOV-1998) to the
EMBL; AF107589; AAD20817.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human cytomegalovirus.
Viruses; dsDNA viruses,
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Pred. No. 1.8
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ches 0;
                                Embryophyta; Tracheo edons; core eudicots; ideae; Prunus.
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026874;
01-NOV-1996
01-NOV-1996
01-DEC-2001
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Q54077;
Q1-NOV-1996
Q1-NOV-1996
Q1-DEC-2001
Q1f2.
Eukaryota; Metazoa; Platyh
Cyclophyllidea; Taeniidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Cloning of a cDNA encoding a major allergen and lipid t protein, from Persica vulgaris Mill.";
Submitted (CCT-2001) to the EMBL/GenBank/DDBJ databases EMBL; AJ277163; CAB96876.2; -.
HSSP, P19655; 1KGM.
                   Taenia crassiceps.
                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.

MEDLINE-94211208; PubMed-8159169;
Brown D.P., Idler K.B., Backer D.M., Donadio S., Kat

"Characterization of the genes and attachment sites"
                                                                                                                                                                                                                                                                                                                                            Saccharopolyspora erythraea (Streptomyces erythraeus).
Bacteria; Firmicutes; Actinobacteria; Actinobacteridae;
Actinomycetales; Pseudonocardineae; Pseudonocardiaceae;
Saccharopolyspora.
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InterPro; IPR000528; PJ/amyl_inbtr.
InterPro; IPR001768; Try/amyl_inbtr.
Pfam; PF00234; tryp_alpha_amyl; 1.
PRINTS; PR00382; LIPIDTRNSFER.
SMART; SM00499; AAI; 1.
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                                          Protective
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                                                                                                                                                                                                                                                  integration of plasmid pSE101 in Sa
Streptomyces lividans.";
Mol. Gen. Genet. 242:185-193(1994).
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          Platyhelminthes;
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L antigen (Fragment).
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Pred. No.
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01-MAY-2000
01-DEC-2001
                 SEQUENCE FROM N.A. STRAIN-NORWICH STOCK; Smith M.C.M.;
                                                                                                          Bacteriophage phi-C31. Viruses; dsDNA viruses, Lambda-like viruses.
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EMBL; U31524; AAB02180.1; -.
NON_TER 1 1
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MEDITINE-96185764; PubMed-8604092;
Manoutcharian K., Rosas G., Hernandez M., E.
Villalobos N., Rodarte L.F., Sciutto E.;
Villalobos N., Rodarte L.F., and cloning
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q26876;
Q26876;
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Manoutcharian K.G., Rosas G., Hernandez M.R.,
Villalobos N., Rodarte L.F., Sciutto E.;
"Cysticercosis: Identification and cloning of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN-ORF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Platyhelminthes; Cyclophyllidea; Taeniidae; Taenia.
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01:NOV-1996 (TrEMBLrel. 14, Las
01:UN-2000 (TrEMBLrel. 14, Las
Protective recombinant antigen
                                                                                         NCBI_TaxID=10719;
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SEQUENCE FROM N.A.
STRAIN-BORRICH STOCK;
STRAIN-SURFICH STOCK;
X MEDLINE-99162580; PubMed=10051617;
X MEDLINE-99162580; PubMed=10051617;
A Hendrix R.W., Smith M.C.M., Burns N., Ford M.E., Hat Hendrix R.W., Smith M.C.M., Burns N., Ford M.E., Hat Hendrix R.W., Smith M.C.M., Burns N., Ford M.E., Hat Hendrix R.W., Smith M.C.M., Burns N., Ford M.E., Hat Proc. Natl. Acad. Sci. U.S.A. 96:2192-2197(1999).
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Best I
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                                                           Streptomyces coelicolor.

Bacteria; Pirmicutes; Actinobacteria; Actinobacterida
Actinomycetales; Streptomycineae; Streptomycetaceae;
NCBI_TaxID=1902;
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  STRAIN-A3(2)
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01-OCT-2000 (TIEMBLIFEL 15, L
01-JUN-2002 (TIEMBLIFEL 21, L
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Hypothetical protein SCO2791.
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EMBL; X5
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Q37983;
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EMBL; AJ006589; CAA07151.1; -.
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MEDLINE=92020203; PubMed=1656389;
Rausch H., Lehmann M.;
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Lambda-like viruses.
NCBI_TaxID=10719;
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STRAIN-WORWICH STOCK;
MEDLINE-99238410; PubMed-10219087;
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Nature 417:141-147(2002).
EMBL; AL163641; CAB87228.1; -.
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                                                                                                                                                                                                          SEQUENCE FROM N.A.

Shang C., Gong Z., Kim C., Zhu J.-K.;

Thang C., Gong Thellungiella halophila.*;

"CDNA clones from Thellungiella halophila.*;

Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; AF499715; AAM19702.1; -.

EMBL; AF499715; AAM19702.1; -.

BD7CEC88191B4AB4 CRC64;
                                                                                                                                                                                                                                                                                                                                            OBS258;
OBS258;
O1-JUN-2002 (TrEMBLrel. 21, Created)
O1-JUN-2002 (TrEMBLrel. 21, Last sequence update)
O1-JUN-2002 (TrEMBLrel. 21, Last annotation update)
O1-JUN-2002 (TremBLrel. 21, Last annotation update)
Lipid transfer protein 4-like protein.
Thellungiella halophila.
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Epermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
eurosids II; Brassicales; Brassicaceae; Thellungiella.
NCBI_TaxID=98038;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crenarchaeon, Aeropyrum pernix K1.";
DNA Res. 6:83-101(1999).
EMBL; APO00060; BBAB80085.1; -
Hypothetical protein; Complete proteome.
SEQUENCE 107 AA; 11451 MW; 8296C1B7152AAE64 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-99310339; PubMed-10382966;
Kawarabayasi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Y.,
Jin-no K., Takahashi M., Sekine M., Baba S.-I., Ankai A., Kosugi H.,
Hosoyama A., Fukul S., Nagai Y., Nishijima K., Nakazawa H.,
Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudoh Y.,
Yamazaki J., Kushida N., Oguchi A., Aoki K.-I., Kudota K.,
Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
**Complete genome sequence of an aerobic hyper-thermophilic
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US-08-331-379-1
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US-08-785-271-6
US-08-785-271-6
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Sequence 4, Appli	Sequence 10, Appl	Sequence 9, Appli	Sequence 9, Appli	Sequence 15, Appl		•	Sequence 24, Appl	6	Sequence 4, Appli	2	Sequence 9, Appli	Sequence 2, Appli	Sequence 2, Appli	Sequence 7, Appli	>	Sequence 11, Appl	Sequence 11, Appl

ALIGNMENTS

MOLECULE TIPE: peptide	-
GY: unk	
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amino acid	
LENGTH: 38 amino acids	
CECURATION FOR SEQ ID NO: 1:	
: (202) 293-6229	
TELEPHONE: (202) 331-7111	
ä	
REFERENCE/DOCKET NUMBER: 0061/00065	
7	
NAME: Franklin Eric I	
ATTORNEY /AGENT INFORMATION:	
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PRIOR APPLICATION DATA:	
FILING DATE: 14-DEC-1993	
APPLICATION NUMBER: PCT/FR93/01239	
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Jouenne, Thierry G.	•••
APPLICANT: Coutos-Thevenot, Pierre M.I.	•••
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SEQ ID NO 361
LENGTH: 167
                                                                                                                                                                                                                                                                                        Sequence 2, Application US/07982650D Patent No. 5360728
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Prasher,
TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/199,637A
CURRENT FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: 60/066,517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/
PRIOR FILING DATE: 1997-11-25
NUMBER OF SEQ ID NOS: 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: VIRULENCE-ASSOCIATE TITLE OF INVENTION: SEQUENCES AND USES FILE REFERENCE: 00786/361002
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           CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/982,650D
FILING DATE: December 1, 1992
                                                                                           COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                          ORRESPONDENCE ADDRESS:
CLASSIFICATION:
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                                                    SOFTWARE:
                                                                 OPERATING SYSTEM:
                                                                                COMPUTER:
                                                                                                                                                              CITY: Atlanta
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                                                                                                                                                                                                                                                                                                                                                                           39 GGAVP 43
                                                                                                                                    COUNTRY:
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Rahme, Laurence G.
Mahajan-Miklos, Shalina
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                                                                                                                                       USA
                                                                                                                                                                                                                                                             Prasher,
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                                                    Microsoft Word
                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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Modified Aequorin Having Increased
Bioluminescent Activity
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Pred. No.
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Query Match
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                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: No. 5541309e
FILING DATE: No. 5541309e
ATTORNEY_AGENT INFORMATION:
NAME: Larry W. Stults, Ph.D.
REGISTRATION NUMBER: 34,025
                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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TELECOMMUNICATION INFORMATION:
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PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Prasher, Douglas
ITTLE OF INVENTION: Modified Aequorin Having Increased
ITTLE OF INVENTION: Bioluminescent Activity
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LENGTH: 189 amino acid
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APPLICATION NUMBER:
FILING DATE: No. 536
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               NAME: Larry W. Stults, Ph.D. REGISTRATION NUMBER: 34,025 REFERENCE/DOCKET NUMBER: 048
                                                                                                                                                  APPLICATION NUMBER: US/08/331,379 FILING DATE: October 28, 1994
                                                                                                                                                                                                       COMPUTER: MacInto
OPERATING SYSTEM:
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                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                SOFTWARE:
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PAGES:
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                                                                                                                                                                                                                                                                                                                                Atlanta
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                                                                                                                                                                                               Microsoft Word
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                                                                                                                                              October 28,
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US-07-982-650D-1
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Best Local Similarity
Stranger 5; Conserve
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                                                                                INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-818-3700
TELEFAX: 404-818-3799
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MEDIUM TYPE: Diskette,
                                                                                                                                                                                                     FILING DATE: NO. 5360728e ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
            MOLECULE TYPE:
FEATURE:
                                                                                                                                                                                                                                               CLASSIFICATION: 530 PRIOR APPLICATION DATA:
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                                                                                                                                                          NAME: Larry W. Stults, Ph.D REGISTRATION NUMBER: 34,025 REFERENCE/DOCKET NUMBER: 04
 NAME/KEY:
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                                                                                                                                                                                                                                                                                                                                     OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: USA
ZIP: 30303-1769
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191 Peachtree Street, 37th Floor
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Pred. No.
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Query Match
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US-07-982-650D-3
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Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence 3, Application US/07982650D Patent No. 5360728
                                                                                                                                                                                                                                      TELEFAX: 404-818-3799 INFORMATION FOR SEQ ID NO:
                                                                                  NAME/KEY: Recombinant site-directed aequorin mutant
OTHER INFORMATION: Site-directed mutant having increased bioluminescent activ
PUBLICATION INFORMATION:
RELEVANT RESIDUES IN SEQ ID NO: 3: Asp 124 changed to Sar
                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Microsoft Wo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                              MOLECULE TYPE:
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                                                                                                                                                  FEATURE:
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                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION:
                                                                                                                                                                               POPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/07/982,650D FILING DATE: December 1, 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DATE: 1987
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                                                                                                                                                                                    l: 196 amino acids
amino acid
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                                                                                                                                                                                                                                                                                                                          W. Stults,
                                                                                                                                                                                                                                                                                                                                         INFORMATION:
                                                                                                                                                              protein
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No. 5360728e
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Modified Aequorin Having
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          Score 27; DB 1; Pred. No. 2.1e+02;
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Pred.
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US-07-982-650D-4
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                                                                                                Sequence 5, Application US/07982650D Patent No. 5360728
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                          TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                      NAME/KEY: Recombinant site-directed aequorin mutant OTHER INFORMATION: Site-directed aequorin mutant having increased bioluminescen. PUBLICATION INFORMATION:
               CORRESPONDENCE ADDRESS
                                                                     APPLICANT: Prasher,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NO. 5360728e
FILING DATE: NO. 5360728e
ATTORNEY/AGENT INFORMATION:
ATTORNEY M. Stults, Ph.D.
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MEDIUM TYPE: Diskette,
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PRIOR APPLICATION DATA:
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   ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: December
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                                                                                    INFORMATION:
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SYSTEM: 7
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Jones & Askew
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                                                 Douglas
Modified Aequorin Having Increased
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                                       Bioluminescent Activity
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Modified Aequorin Having Increased
Bioluminescent Activity
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Pred. No.
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US-08-331-379-1
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                                                                                                                                                                                                                                                                                                                                                      GENERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: 404-818-3799 INFORMATION FOR SEQ ID NO:
              CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                         SOFTWARE: Microsoft Word CURRENT APPLICATION DATA:
                                                                                                                                                        COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Site-directe
PUBLICATION INFORMATION:
RELEVANT RESIDUES IN SEQ ID NO:
                                                                                                                                                                                                                                                                                     TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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TELEPHONE: 404-818-3700
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MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              192 GGAVP 196
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                                              APPLICATION NUMBER: US/08/331,379 FILING DATE: October 28, 1994
                                                                                                                         COMPUTER:
 APPLICATION NUMBER:
                                                                                                        OPERATING SYSTEM:
                                                                                                                                           MEDIUM TYPE: Diskette,
                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                            STATE:
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GY: linear
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                                                                                                                                                                                                                                                                                                Prasher, Douglas
VENTION: Modified Aequorin Having Increased
VENTION: Bioluminescent Activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              196 amino acids
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                                                                                                                            MacIntosh
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100.0%; Pred. No. 2.1e+02;
... mismatches 0;
No. 5541309e
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14,025
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RESULT 10
US-08-331-379-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE: Sequence Comparisons of Complementary DNAs Encoding Patent No. 5541309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local 9
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OTHER INFORMATION: Bioluminescent protein
PUBLICATION INFORMATION:
AUTHORS: Prasher et al.
                                              APPLICATION NUMBER: NO. 5541309e
FILING DATE: NO. 5541309e
ATTORNEY/AGENT INFORMATION:
NAME: LAITY W. Stults, ph.D.
REGISTRATION NUMBER: 34,025
                                                                                                                               CLASSIFICATION: 514
PRIOR APPLICATION DATA:
                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                            ZIP: 30303-1769
COMPUTER READABLE FORM:
REFERENCE/DOCKET NUMBER: 04
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-818-3700
                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Prasher, TITLE OF INVENTION: TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               192 GGAVP 196
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                                                                                                                                                                                                                          COMPUTER: MacInto
                                                                                                                                                                 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAGES: 132
DATE: 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 34,025
REFERENCE/DOCKET NUMBER: 04
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                                                                                                                                                                                                                                                              MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL:
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Similarity 100.0%;
5; Conservative 0
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amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/08331379
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                                                                                                                                                                                                                                                                                                                              Georgia
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                                                                                                                                                                October 28,
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Modified Aequorin Having Increased
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                                04840-0071
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Pred. No.
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; RELEVANT RESIDUES IN SEQ ID NO: US-08-331-379-4
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US-08-331-379-4
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INFORMATION FOR SEQ ID NO:
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                               OTHER INFORMATION: SI
PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                               APPLICATION NUMBER: NO. 55
FILING DATE: NO. 5541309e
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA:
                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 196 amino acid
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MEDIUM TYPE: Diskette,
                                                                                          MOLECULE TYPE:
                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/08/331,379 FILING DATE: October 28, 1994 CLASSIFICATION: 514
                                                                                                                                                                                                                                    REGISTRATION NUMBER: 34,025
REFERENCE/DOCKET NUMBER: 04
                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: 7.0
SOFTWARE: Microsoft Word
                                                            NAME/KEY:
                                                                                                                                                                                                                                                   REGISTRATION NUMBER:
                                                                                                            TOPOLOGY:
                                                                                                                                                                                                   TELEPHONE:
                                                                                                                                                                                                                                                                     NAME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Atlanta
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OTHER INFORMATION: Site-directed mutant having increased bioluminescent activ
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Y: USA
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                                                                                                                                   196 amino acids
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                                     RECOMBINANT Site-directed aequorin mutant having increased bioluminesc
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Modified Aequorin Having Increased
Mioluminescent Activity
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Pred. No.
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Query Match Best Local Matches

h 100.0%; Score 27; DB 1; Similarity 100.0%; Pred. No. 2.1e+02; S; Conservative 0; Mismatches 0;

DB 1; Length 196;

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US-08-331-379-5
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Patent No. 5541309
GENERAL INFORMATION:
                                                                                 Sequence 2, Application US/08583672 Patent No. 5741673
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Best Local (
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SEQUENCE CHARACTERISTICS:
LENGTH: 196 amino acids
                                                                  GENERAL INFORMATION:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette,
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APPLICATION NUMBER: No. 55
FILING DATE: No. 5541309e
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                                                                                                                                                                                                                                                                                                                                            NAME/KEY: Recombinant site-directed aequorin mutant OPHER INFORMATION: Site-directed mutant having increased bioluminescent activity PUBLICATION INFORMATION: RELEVANT RESIDUES IN SEQ ID NO: 5: Gly 129 changed to Ala
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 34,025
REFERENCE/DOCKET NUMBER: 04840-0071
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-818-3700
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TITLE OF INVENTION:
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                                  APPLICANT:
                                                                                                                                                                                           192 GGAVP 196
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                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: 14---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Larry W. Stults, Ph.D. REGISTRATION NUMBER: 34,025
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5; Conserv
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VENTION: Modified Aequorin Having Increased
VENTION: Bioluminescent Activity
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                                                Montminy,
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                   A NOVEL HOMEOBOX FACTOR THAT STIMULATES
                                James N.
INSULIN EXPRESSION IN PANCREATIC ISLET CELLS
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Pred. No. 2.1e+02;
; Mismatches 0;
                                                                                                                                                                                                                                                                0;
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Edlund,
TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                245 GGAVP 249
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-4737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark
STREET: 444 South Flower Street, Suite 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: (
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                                                                                                    COMPUTER: IBM PC COMPATIBLE OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: ASCII (text)
CURRENT APPLICATION DATA:
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                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES: 9
                                           ATTORNEY/AGENT INFORMATION:
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                                                        APPLICATION NUMBER: US/08/320,148B FILING DATE: 07-OCT-1994 CLASSIFICATION: 800
                                                                                                                                                                                                                                           CITY: Boston
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 NAME: Vincent, Matthew P. REGISTRATION NUMBER: 36, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                             ADDRESSEE: LANGE STREET: 60 State Street
                                                                                                                                                                                                            COUNTRY:
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SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                          LAHIVE & COCKFIELD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                  Insulin Promoter Factor, and Uses Related Thereto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/08/106,936
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36,709
ER: ONI-004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 27;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 1;
3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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TELECOMMUNICATION INFORMATION:

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                                                                                                                                ; TOPOLOGY: linear US-08-589-028-6
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US-08-589-028-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
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                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:

NAME: Highlander, Steven L.

REGISTRATION NUMBER: 47,642

REFERENCE/DOCKET NUMBER: UTSD:426\HYL

TELECOMMUNICATION INFORMATION:

TELEPHONE: (512) 418-3000

TELEPAX: (512) 474-7577

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
                                                             Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPALIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/589,028
FILING DATE: CONCULTENTLY Herewith
CLASSIFICATION: 435
APPLICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6, Application US/08589028 Patent No. 6087129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 100.0%; Score 27; DB 2; Best Local Similarity 100.0%; Pred. No. 3e+02; Matches 5; Conservative 0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO: 2: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 284 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
246 GGAVP 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        246 GGAVP 250
                                                                                                                                                             LENGTH: 284 amino TYPE: amino acid STRANDEDNESS:
                                                             Match 100.0%;
Local Similarity 100.0%;
tes 5; Conservative 0;
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                                1 GGAVP 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 GGAVP 5
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Halban, Philippe
No. 6087129mington, Karl D.
Clark, Samuel A.
Thigpen, Anice E.
Quaade, Christian
Kruse, Fred
                                                                                                                                                                                            284 amino acids
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                                                                           Score 27; DB 3; Pred. No. 3e+02;
                                                                                           DB 3; Length 284;
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Search completed: March 17, 2003, 12:11:52 Job time: 13 secs



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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence:
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                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      seq length: 0 seq length: 2000000000
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27
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Match
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1: /cgn2_6/ptodata/2/paa/
2: /cgn2_6/ptodata/2/paa/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ggavp 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /cgn2_6/ptodata/2/paa/PCTUS_
/cgn2_6/ptodata/2/paa/US06_C
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/cgn2_6/ptodata/2/paa/US086_COMB.pep:*
/cgn2_6/ptodata/2/paa/US087_COMB.pep:*
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'cgn2_6/ptodata/2/paa/US084_COMB.pep:*
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/cgn2_6/ptodata/2/paa/US101_COMB.pep:*
/cgn2_6/ptodata/2/paa/US102_COMB.pep:*
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     46
46
46
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     14
27
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22
   US-09-011-545-37

US-09-538-038-837

US-60-160-189-8914

US-09-617-682A-1242

US-09-688-052-3054

US-09-855-754-8
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                                                                                                                                                                               SUMMARIES
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                                                                                                                         Description
Sequence 37, Appl
Sequence 837, App
Sequence 8914, Ap
Sequence 1242, Ap
Sequence 3054, Appli
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ALIGNMENTS

CURRENT APPLICATION NUMBER: US/09/011,545C
CURRENT FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: JP 7/199745
PRIOR FILING DATE: August 4, 1995
NUMBER OF SEQ ID NOS: 78
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 37
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: The peptide encoded by th
US-09-011-545-37 RESULT 1
US-09-011-545-37
; Sequence 37, Application US/09011545C
; GENERAL INFORMATION:
GENERAL INFORMATION: BACTERIAL PEPTIDE LIBRARY
TITLE OF INVENTION: BACTERIAL PEPTIDE LIBRARY
FILE REFERENCE: 7898/245156 밁 Š Query Match Best Local Local Similarity nes 5; Conserv 1 GGAVP 5 2 GGAVP 100.0%; illarity 100.0%; iconservative 0; Score 27; DB 14; Pred. No. 1.8e+02; ; Mismatches 0; the DNA set forth Length 10; Indels 'n 0 SEQ Gaps Ħ Š. 0

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RESULT 4
US-09-617-682A-1242
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APPLICANT: BONAZZI, VIVIEN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-538-038-837
Sequence 1242, Application US/09617682A
                                                                                                                                                               Query Match
Best Local :
                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 10162
SOFTWARE: FRSTSEQ for Windows Version 4.0
SEQ ID NO 8914
LENGTH: 44
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/538,038
CURRENT FILING DATE: 2000-03-29
NUMBER OF SEQ ID NOS: 2653
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 837
LENGTH: 23
TYPE: PRT
                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: ISOLATED HUMAN DRUG TARGET PROTEINS, TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMATITLE OF INVENTION: AND USES THEREOF FILE REFERENCE: CL000112
                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/60/160,189 CURRENT FILING DATE: 1999-10-19
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APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
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Similarity 100.0%;
5; Conservative 0;
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Spetzler, Jane
Cheng, Weiding
Ostergaard, Soren
Mandecki, Wlodek S.
Hansen, Per Hertz
Rayera, Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Beasley, James
Blume, Arthur J.
Schaffer, Lauge
Pillutla, Renuka
Brandt, Jakob
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                                                                                                                                               Conservative
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                                                                                                                                            Score 27; DE
Pred. No. 8.2
0; Mismatches
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Pred. No.
                                                                                                                                                       8.2e+02;
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                                                                                                                                                                           DB 27;
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                                                                                                                                                                       Length 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 23;
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US-09-855-754-8
; Sequence 8, Application US/09855754
; GENERAL INFORMATION:
; APPLICANT: BOURSAUX-EUDE, CAROLINE
; APPLICANT: GUISO-MACLOUE, NICOLE
; TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
; TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                                                                                                                                                                                                                                                                                                  RESULT 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               片
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Sequence 3054, App
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Best Local Similarity
Matches 5; Conserv
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SEQ ID NO 3054
LENGTH: 46
TYPE: PRT
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CURRENT FILING DATE: 2000-07-19
NUMBER OF SEQ ID NOS: 16871
SEQ ID NO 1242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity Matches 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT FILING DATE: 2000-10-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..46
OTHER INFORMATION: Xaa is any amino acid
NAME/KEY: misc_feature
LOCATION: 1..46
OTHER INFORMATION: Ceres Seq. ID 1599998
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TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptid
TITLE OF INVENTION: Thereby
FILE REFERENCE: 2750-1063P
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; SEQ ID NO 8
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-8
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CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
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CURRENT FILING DATE: 2001-01-17
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APPLICANT: Human Ge
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                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/2
APPLICATION NUMBER: 60/2
TOTAL DATE: 2000-08-22
                                                              FILING DATE: 2000-1: APPLICATION NUMBER: FILING DATE: 2000-0
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APPLICATION NUMBER: 60/
FILING DATE: 2000-07-11
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                             APPLICATION NUMBER: 60/234,274 FILING DATE: 2000-09-21
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FILING DATE: 2000-07-07
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FILING DATE: 2000-08-14
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APPLICATION NUMBER: 60
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60/225,759

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US-09-764-874-4311; Sequence 4311, Application US/09764874; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
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OR APPLICATION NUMBER: 60/246,475
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OR FILING DATE: 2000-09-14
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R APPLICATION NUMBER: 60/2:
RR FILING DATE: 2000-08-14
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APPLICATION NUMBER: 60,
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APPLICATION NUMBER: 60/216,647
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OR APPLICATION NUMBER: 60/249,218
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,208
OR APPLICATION NUMBER: 60/249,213
OR APPLICATION NUMBER: 60/249,213
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,212
OR APPLICATION NUMBER: 60/249,212
OR APPLICATION NUMBER: 60/249,207

APPLICATION NUMBER: 60/215,135 FILING DATE: 2000-06-30 APPLICATION NUMBER: 60/225,266

FILING DATE:

2000-08-

60/225, 266

FILING DATE:

2000-09-06

FILING DATE: 2000-08-14
APPLICATION NUMBER: 60/235,836
FILING DATE: 2000-09-27
APPLICATION NUMBER: 60/230,438

APPLICATION NUMBER: 60

60/225,214 60/227,182

2000-08-22

APPLICATION NUMBER:

APPLICATION NUMBER: 60/225,213 FILING DATE: 2000-08-14

PRIOR PRIOR

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NUMBER: 60/232,401

2000-09-14

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APPLICATION FILING DATE:

NUMBER:

60/232,399 60/232,397 60/233,063 60/233,064

2000-09-14 2000-09-14 2000-09-14

APPLICATION NUMBER: FILING DATE: 2000-10

2000-10-20

60/241,808

NUMBER: 60/241,826: 2000-10-20

FILING DATE: FILING APPLICATION

2000-10-20

60/241,786

DR FILING DATE: 2000-09-08
DR APPLICATION NUMBER: 60/232,080
DR FILING DATE: 2000-09-08
DR APPLICATION NUMBER: 60/231,414
DR FILING DATE: 2000-09-08
DR APPLICATION NUMBER: 60/231,244
DR FILING DATE: 2000-09-08
DR FILING DATE: 2000-09-08

FILING DATE: 2000-09-14
APPLICATION NUMBER: 60/231,242
FILING DATE: 2000-09-08 APPLICATION NUMBER: 60/232,400 APPLICATION NUMBER: 60/249,297 FILING DATE: 2000-11-17

APPLICATION NUMBER: 60/249,214 FILING DATE: 2000-11-17 APPLICATION NUMBER: 60/249,264 FILING DATE: 2000-11-17

2000-11-1

FILING DATE: 2000-1: APPLICATION NUMBER:

APPLICATION NUMBER: 60/249,217

2000-11-17

60/249,211

FILING DATE:

FILING DATE:

APPLICATION NUMBER: 60/249,215

2000-11-17

FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/249,244
FILING DATE: 2000-11-17

APPLICATION NUMBER:

60/232,081

R APPLICATION R FILING DATE: R APPLICATION

NUMBER: 60/ : 2000-09-14

NUMBER:

R FILING DATE: 2000-12-08
R APPLICATION NUMBER: 60/2:
R FILING DATE: 2000-12-08
R APPLICATION NUMBER: 60/2:
R APPLICATION NUMBER: 60/2:
R FILING DATE: 2000-09-01

APPLICATION NUMBER: 60/236,368 FILING DATE: 2000-09-29 APPLICATION NUMBER: 60/251,856

APPLICATION NUMBER: 60/ FILING DATE: 2000-08-14

60/225,268

APPLICATION NUMBER: 60/244,617 FILING DATE: 2000-11-01 FILING DATE: 2000-10-20

APPLICATION NUMBER: 60/241,785

2000-09-29 2000-11-2000-10-20

60/236,327 60/249,299 60/241,809 60/220,964

FILING DATE:

NUMBER: 60/ : 2000-07-26 NUMBER:

FILING DATE: APPLICATION NUMBER: APPLICATION NUMBER:

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PRIOR APPLICATION |
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R FILING DATE: 2000-11-1 R APPLICATION NUMBER: 60, R FILING DATE: 2000-08-2: R APPLICATION NUMBER: 60, R APPLICATION NUMBER: 60, R APPLICATION NUMBER: 60,

2000-08-14

60/225,759 60/225,213

FILING DATE: 2000-11-08
APPLICATION NUMBER: 60/249,216
FILING DATE: 2000-11-17

APPLICATION NUMBER:

2000-11-

60/226,681 60/249,210 FILING DATE: 2000-11 APPLICATION NUMBER: APPLICATION NUMBER: 60/ FILING DATE: 2000-10-20 APPLICATION NUMBER: 60/

2000-11-08

60/246,532 60/246,474 60/241,787

FILING DATE APPLICATION

000-08-14

APPLICATION NUMBER: 60/240,960 FILING DATE: 2000-10-20 APPLICATION NUMBER: 60/239,935 FILING DATE: 2000-10-13 APPLICATION NUMBER: 60/239,937 FILING DATE: 2000-10-13 APPLICATION NUMBER: 60/239,937

FILING DATE:

2000-10-

APPLICATION NUMBER: 60/ FILING DATE: 2000-10-02

FILING DATE: 2000-10-02 APPLICATION NUMBER:

60/237,040 60/237,037

APPLICATION NUMBER: 60/236,802 FILING DATE: 2000-10-02 APPLICATION NUMBER: 60/236,370 FILING DATE: 2000-09-29 FILING DATE: 2000-10-02
APPLICATION NUMBER: 60/237,038
FILING DATE: 2000-10-02 APPLICATION NUMBER: 60/ FILING DATE: 2000-09-05 APPLICATION NUMBER: 60/231,413 FILING DATE: 2000-09-08

APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: 2000-09

2000-10-02 2000-09-29

60/237,039 60/236,367 60/229,509 APPLICATION NUMBER: 60/ FILING DATE: 2000-09-01

APPLICATION NUMBER: 60/ FILING DATE: 2000-09-01

APPLICATION NUMBER: FILING DATE: 2000-0

2000-09-05

60/229,513 60/229,287 60/229,345 60/229,343 60/234,997 60/229,344 60/251,868

FILING DATE: 2000-09-25 APPLICATION NUMBER: 60/ FILING DATE: 2000-09-01

APPLICATION NUMBER:

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RESULT 10
US-10-206-008-905
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Matches
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SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 905
LENGTH: 49
TYPE: PRT
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CURRENT FILING DATE: 2002-07-29
PRIOR APPLICATION NUMBER: 09/760,479
                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies FILE REFERENCE: PTZ53C1N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: ROSEN et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PTZ53
CURRENT APPLICATION NUMBER: US/09/760,479
CURRENT FILING DATE: 2001-01-16
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NAME/KEY: SITE
LOCATION: (29)
OTHER INFORMATION: :
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REPLICATION NUMBER: 60/179,065
DATE: 2000-01-31
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                                                                FILING DATE: 2000-07-26
APPLICATION NUMBER: 60/217,496
FILING DATE: 2000-07-11
APPLICATION NUMBER: 60/225,447
                                       APPLICATION NUMBER:
                                                                                                                                                                                             APPLICATION NUMBER: 60/214,886 FILING DATE: 2000-06-28
                                                                                                                                                                                                                          FILING DATE: 2000-01-31
APPLICATION NUMBER: 60/180,628
FILING DATE: 2000-02-04
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APPLICATION FILING DATE:
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                           FILING DATE:
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ilarity 100.0%;
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          NUMBER: 60/225,757
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Pred. No. 8.
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8.8e+02;
es 0;
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PRIOR R FILING DATE: 2000-10-02
R APPLICATION NUMBER: 60/2:
R FILING DATE: 2000-10-02
R APPLICATION NUMBER: 60/2:
R APPLICATION NUMBER: 60/2:
R FILING DATE: 2000-09-29 FILING DATE: 2000-09
APPLICATION NUMBER: APPLICATION I APPLICATION NUMBER: FILING DATE: 2000-0 APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: FILING DATE: 2000-09-01 FILING DATE: 2000-0 APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: 60/251,868 FILING DATE: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: FILING DATE: APPLICATION NUMBER: 60/244,617 FILING DATE: APPLICATION NUMBER: 60/241,785 FILING DATE: APPLICATION NUMBER: APPLICATION NUMBER: 60/249,299 APPLICATION NUMBER: 60/241,809 APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: 2000-08 FILING DATE: 2000-09-29 FILING DATE: 2000-08 APPLICATION NUMBER: APPLICATION NUMBER: 60/224,518 APPLICATION NUMBER: APPLICATION NUMBER: 60/234,223 APPLICATION NUMBER: FILING DATE: 2000-07 FILING DATE: FILING DATE: FILING DATE: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: 60/225,267 APPLICATION NUMBER: NUMBER: 2000-09-29 2000-09-05 2000-09-08 2000-09-05 2000-09-00 2000-09-01 2000-09-01 2000-09-2000-12-08 2000-09-29 2000-11-01 2000-10-20 2000-09-29 2000-11-3 2000-10-20 2000-07-26 2000-08-14 2000-09-21 2000-07-07 2000-08-14 2000-08-14 2000-08-30 2000-09-21 2000-09-27 2000-12-08 2000-08-2000-07-07 2000-08-14 2000-08-60/237,038 60/237,039 60/236,367 60/229,509 60/231,413 60/229,513 60/229,287 60/229,345 60/229,343 60/234,997 60/229,344 60/251,856 60/236,368 60/225,268 60/236,327 60/224,519 60/236,369 60/228,924 60/220,964 60/234,274 60/235,834 60/251,869 60/225,270 60/216,647 60/226,868 60/216,880

APPLICATION NUMBER: 60/236,802 FILING DATE: 2000-10-02

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OR FILING DATE: 2000-11-08
OR APPLICATION NUMBER: 60/246,532
OR APPLICATION NUMBER: 60/249,216
COR APPLICATION NUMBER: 60/249,216
FOR FILING DATE: 2000-11-17
TOR APPLICATION NUMBER: 60/249,210
TOR FILING DATE: 2000-11-17
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DR FILING DATE: 2000-08-14

OR APPLICATION NUMBER: 60/235,836

OR FILING DATE: 2000-09-27

FOR APPLICATION NUMBER: 60/230,438

FOR APPLICATION NUMBER: 60/230,438

FOR APPLICATION DATE: 2000-09-06
                                                                                                                                                                                                                                                                                                 OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,244
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,217
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,211
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,215
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OR APPLICATION NUMBER: 60/249,215
OR APPLICATION NUMBER: 60/249,264
OR FILING DATE: 2000-11-17
OR APPLICATION NUMBER: 60/249,264
OR FILING DATE: 2000-11-17
                                     PR APPLICATION NUMBER: 60/231,242

PR FILLING DATE: 2000-09-08

PR APPLICATION NUMBER: 60/232,081

PR FILING DATE: 2000-09-08

PR APPLICATION NUMBER: 60/232,080

PR APPLICATION NUMBER: 60/231,414
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OR FILLING DATE: 2000-08-14
OR APPLICATION NUMBER: 60/227,182
OR FILLING DATE: 2000-08-22
OR APPLICATION NUMBER: 60/225,214
OR APPLICATION NUMBER: 60/225,214
OR FILLING DATE: 2000-08-14
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FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/249,297
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APPLICATION NUMBER: 60/215,135
FILING DATE: 2000-06-30
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APPLICATION NUMBER: 60/225,759
FILING DATE: 2000-08-14
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APPLICATION NUMBER: 60/241,787
FILING DATE: 2000-10-20
APPLICATION NUMBER: 60/246,474
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APPLICATION NUMBER: 60/226,681
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RESULT 12
US-09-855-754-13
Sequence 13, Application US/09855754
GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
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; ORGANISM: Bordetella bronchiseptica
US-09-855-754-7
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US-09-855-754-7
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Matches 5
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Best Local
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNGEBNIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
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32 GGAVP 36
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FILING DATE: 2000-10-20
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APPLICATION NUMBER: 60/241,786
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FILING DATE: 2000-09-14
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FILING DATE: 2000-09-
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BB DB 22;).6e+02;

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Indels

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Length 49; Indels

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US-60-140-956-2004
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CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
SOFTMARE: PATENTIN VET: 2.1
                                                                                                                                                                                                                                                                                                                  Sequence 9, Applicat GENERAL INFORMATION:
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Best Local :
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2004
LENGTH: 54
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GENERAL INFORMATION:
APPLICANT: Kerlavage, Anthony
TITLE OF INVENTION: ISOLATED SECRETED PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES ENCODING SECRETED PROTEINS, AND USES THEREOF
FILE REFERENCE: CL000041
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEA
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 24
SOFTWARE: Patentin Ver. 2.1
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CURRENT FILING DATE: 1999-06-25
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INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
                                                                                                                                                                                                                                                                                                                                     Application US/09855754
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Search completed: March 17, Job time: 154 secs
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; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754-10
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Best Local Similarity
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TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOSENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT FILING DATE: 2001-09-10
CURRENT FILING DATE: 2001-09-10
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
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Maximum DB
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US-09-855-754B-12
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US-09-855-754B-12
PCT-US02-32727-16495
US-09-978-825-754B-11
PCT-US02-32727-19550
US-09-978-825-19550
US-09-978-825-19550
US-10-057-498-19550
US-10-057-498-195641
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US-10-366-683-18907
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834, App
7685, Ap
7685, Ap
7685, Ap
22324, A
10615, A
26035, A
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834, A
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19550, A
19550, A
19550, A
27641, A
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18907, A
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16495, A
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ALIGNMENTS	US-10-057-498-26035 US-10-366-683-30603 PCT-US02-32727-10551 US-09-978-825-10551 US-10-057-498-10551 US-10-280-911-2 US-10-280-911-2 PCT-US02-32727-3653 US-10-368-683-3293 US-10-368-683-3293 US-10-368-683-3293 US-10-368-683-17151 US-10-158-683-1310 US-10-158-761-9484 US-60-427-194-130 US-60-427-194-130 US-10-366-683-32188
	Sequence
	26035, A 30603, A 10551, A 10551, A 10551, A 10551, A 2, Appli 2, Appli 3653, Ap 3653, Ap 3653, Ap 3653, Ap 3153, Ap 3153, Ap 3653, Ap 365

TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PRANCHERTUSSIS, AND BORDETELLA PARAPERTUSSIS, AND BORDETELLA BARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISSPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000 CURRENT APPLICATION UNDER: US/09/855,754B CURRENT FILING DATE: 2001-05-16 Query Match Best Local Similarity """ onserve 밁 Ş RESULT 1 US-09-855-754B-8 RESULT 2 US-09-855-754B-7 ; ORGANISM: Bordetella bronchiseptica US-09-855-754B-8 Sequence 7, Application US/09855754B GENERAL INFORMATION: APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: BOURSAUX-EUDE, NICOLE TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000 CURRENT APPLICATION NUMBER: 05/29/855,754B CURRENT FILING DATE: 2001-05-15 PRIOR APPLICATION NUMBER: 60/2306,969 PRIOR FILING DATE: 2000-05-25 SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 8 GENERAL INFORMATION Sequence APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE LENGTH: 46 TYPE: PRT ORGANISM: PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 2000-05 NUMBER OF SEQ ID NOS: 25 13 GGAVP 17 1 GGAVP 5 46 Application US/09855754B Conservative 2000-05-25 100.0%; 60/206,969 0; Score 27; Pred. No. Mismatches 95; 5; Length 46; Indels 0; Gaps

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SEQUENCE 9, APPLICATION US/09855754B

GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, CAROLINE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
. NUMBER OF GRO IN NOS. 25
US-09-855-754B-9
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; TYPE: PRT
; ORGANIZM: Bordetella bronchiseptica
US-09-855-754B-7
                                                                                    SEQ ID NO 9
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LENGTH: 51
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Best Local S
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CURRENT APPLICATION NUMBER: US/09/855,754B

CURRENT APPLICATION UNDER: 05/206,969

PRIOR PILING DATE: 2001-05-16

PRIOR PILING DATE: 2000-05-25

NUMBER OF SEQ ID NOS: 25

SOFTMARE: Patentin Ver: 2.1
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                                                                                                        NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.1
                                        TYPE: PRT
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               ORGANISM: Bordetella bronchiseptica
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SOFTWARE: PatentIn Ver. 2.1
                                                             ENGTH: 56
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Pred. No.
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Pred. No. 1.1e+02;
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; LENGTH: 56
; TYPE: PRT
; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-12
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Best Local Similarity
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                                                                                          Query Match 100.0%; Score 27; DB 5; Best Local Similarity 100.0%; Pred. No. 1.2e+02; Matches 5; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/:
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
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APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
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APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
CURRENT FILING DATE: 2001-05-16
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CURRENT FILING DATE: 2001-05-16

CURRENT FILING DATE: 2001-05-69

PRIOR APPLICATION NUMBER: 60/206,969

PRIOR PELICATION NUMBER: 60/206,969

PRIOR FILING DATE: 2000-05-25

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1 GGAVP 5
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Pred. No.
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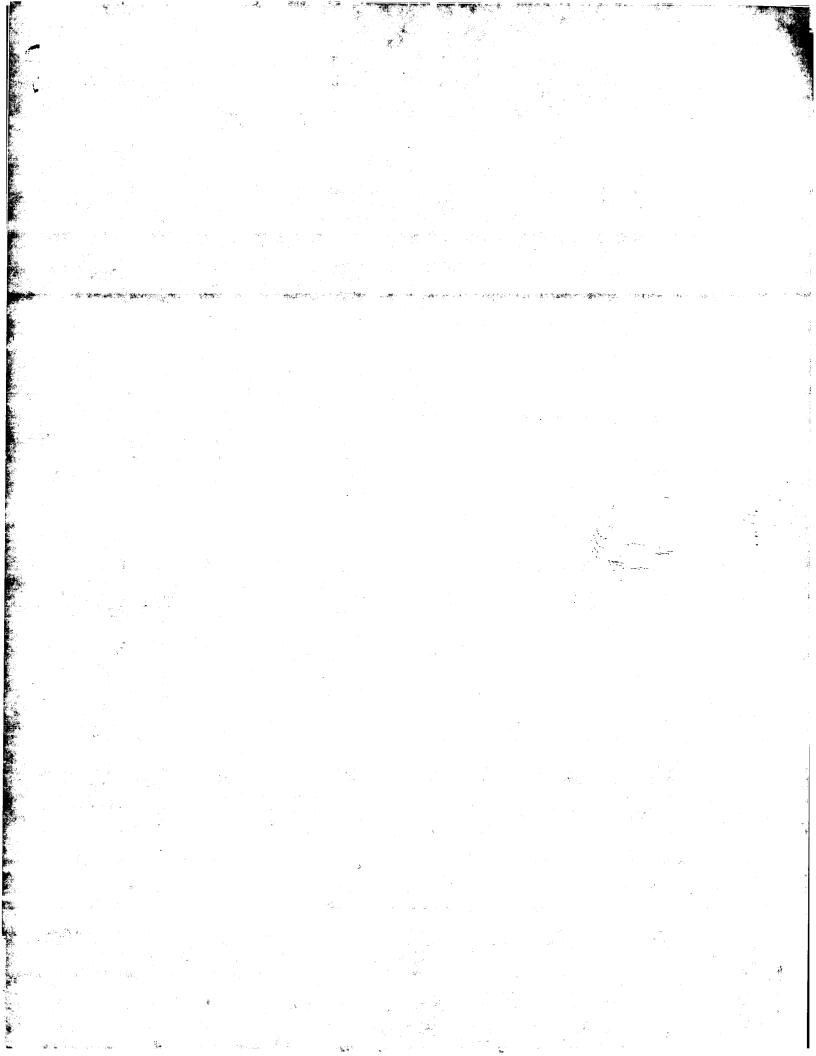
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; TYPE: PRT ; ORGANISM: Propioni acnes US-09-978-825-16495
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PCT-US02-32727-16495
                                                                                                           APPLICANT: Carter, Darrick
APPLICANT: Barth, Brenda
APPLICANT: Douglass, John
TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acnes
FILE REFERENCE: 210121.514C1
CURRENT APPLICATION NUMBER: US/09/978,825
CURRENT FILING DATE: 2003-01-29
NUMBER OF SEQ ID NOS: 30992
100 16495
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APPLICANT:
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TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acnes
FILE REFERENCE: 210121.514C1
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CURRENT FILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
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                                                                                                    LENGTH: 59
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 Local Similarity 100 tes 5; Conservative
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Jones, Robert
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Zhang, Yanni
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Bhatia, Ajay
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Barth, Brenda
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Jones, Robert
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Bhatia, Ajay
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Pred. No.
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; LENGTH: 59
; TYPE: PRT
; ORGANISM: Propioni acnes
US-10-057-498-16495
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PCT-US02-32727-19550
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Best Local S
Matches 5
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 11
                                                                                                        Sequence 19550, Application PC/TUS0232727 GENERAL INFORMATION:
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYEPFIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS
TITLE OF INVENTION: TAMUNOCENIC COMPOSITIONS
TITLE OF INVENTION: TAMUNOCENIC COMPOSITIONS
CURRENT FILLING DATE: 2010-05-16
CURRENT FILLING DATE: 2010-05-26
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
VANCIONE CONTAINS AND THE PRIOR P
APPLICANT: Mitcham, Jennifer APPLICANT: Skeiky, Yasir APPLICANT: Persing, David
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CURRENT FILING DATE: 2001-04-20
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TYPE: PRT
ORGANISM: Bordetella bronchiseptica
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Pred. No. 1.3e+02
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Pred. No. 1.2e+02
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RESULT 13
US-10-057-498-19550
; Sequence 19550, Application US/10057498
; GENERAL INFORMATION:
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US-09-978-825-19550
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PCT-US02-32727-19550
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LENGTH: 84
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CURRENT FILING DATE: 2003-01-29
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TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acnes
FILE REFERENCE: 210121.514C1
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TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of
FILE REFERENCE: 210121.514c1
CURRENT APPLICATION NUMBER: PCT/US02/32727
CURRENT FILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
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TYPE: PRT
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Jen, Shyian
Lodes, Michael
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Jones, Robert
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Bhatia, Ajay
Maisonneuve, Jean Francois
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Barth, Brenda
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Jones, Robert
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RESULT 15
US-09-978-825-27641
Sequence 27641, Application US/09978825
GENERAL INFORMATION:
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; OTHER INFORMATION: Xaa = PCT-US02-32727-27641
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Best Local Similarity
Watches 5; Conserve
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US-10-057-498-19550
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Best Local Similarity
Matches 5; Conserv
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SEQ ID NO 27641
LENGTH: 105
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LENGTH: 84
TYPE: PRT
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           APPLICANT: Mitcham, Jennifer APPLICANT: Skeiky, Yasir
                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Douglass, John
TITLE OF INVENTION: Compositions and Methods for the Therapy and
FILE REFERENCE: 210121.514C1
CURRENT APPLICATION NUMBER: PCT/US02/32727
CURRENT FILING DATE: 2002-10-11
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CURRENT FILING DATE: 2001-04-20
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TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acne
FILE REFERENCE: 210121.514
                                                                                                                                                                                                                                                                                                                        FEATURE:
NAME/KEY: unsure
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APPLICANT: Skeiky, Yasir
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Benson, Darin
Jones, Robert
Persing, David
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Barth, Brenda
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Wang, Siqing
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Bhatia, Ajay
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Pred. No.
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APPLICANT: Maisonneuve, Jean Francois
APPLICANT: Zhang, Yanni
APPLICANT: Wang, Siqing
APPLICANT: Jens, Shyian
APPLICANT: Jones, Shyian
APPLICANT: Lodes, Michael
APPLICANT: Lodes, Michael
APPLICANT: Jones, Robert
APPLICANT: Jones, Robert
APPLICANT: Benson, Darin
APPLICANT: Benson, Darick
APPLICANT: Dauglass, John
TITLE OF INVENTION COmpositions and Methods for the Therapy and Diagnosis of Acnes v
FILE REFERENCE: 210121.514C1
CURRENT APPLICATION NUMBER: US/09/978,825
CURRENT APPLICATION NUMBER: US/09/978,825
CURRENT FILING DATE: 2003-01-29
NUMBER OF SEQ ID NOS: 30992
SEQ ID NO 27641
LENGTH: 105
TYPE: PRT
ORGANISM: Propioni acnes
FEATURE:
NAME/KEY: unsure
LOCATION: (83)
OTHER INFORMATION: Xaa - Any Amino Acid
Search completed: March 17, 2003, 12:20:54 Job time: 24 secs
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                                                                                                                                                                            Query Match 100.0%; Score 27; DB 5; 1
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 5; Conservative 0; Mismatches 0;
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94 GGAVP 98
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Result
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Perfect score:
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Match
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Human BLyS binding
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AAB53438	AAB49505	AAG58387	AAB58693	AAY52932	AAY68278	ABP46083	AAR24133	ABG26141	AAW49691	AAU18044	AAY90347	AAW98657	AAY43259	AAB62810	ABB55782	AAU39073	AAY42381	ABB61587	AAU54953	AAO10996	ABB63248	AAG62940	AAU02583	AAW90292	AAR66316	AAB49510	AAO07793	AAU10300	AAY53054	AAW21829	ABP40272	AAB51439	14	AAB51431
colon ca		Ų.	II	ΙΙ	H	BLyS	_	Novel human diagno		man immu	pylori	pylori	lori niti			Human secreted pro		Drosophila melanog	Propionibacterium			Amino acid sequenc	adipocyte mo		ponumni		Human polypeptide	tein coup	secreted p		ylococcus	secreted	secreted	Human secreted pro

ALIGNMENTS

RESULT 1 AAR61371

AAR61371 standard; peptide; 10 AA.

AAR61371;

Modified-site Bradykinin; receptor; antagonist; antiinflammatory; analgesic; asthma; angina; arthritis; allergy; rhinitis; shock; hypotension; inflammatory bowel disease. 10-AUG-1995 (first entry) Modified-site Modified-site Synthetic Bradykinin receptor antagonist peptide having side chain cyclisation. Modified-site Modified-site /label= OTHER /note= "olc, i.e.(28,3a8,7a8)-octahydro-1H-indole-2-carboxylic acid" Location/Qualifiers /note= /note-/note= "D-form residue" ′label= 4Hyp "amide bond formation between the side chain of this residue and that of Asp(7)" "D-form residue, as thiol analogue; in form of phenyl ether (trans isomer)"

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RESULT 2
ABP47180
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Best Local :
15-JUN-2001; 2001WO-US19110
                                                                                                                                                                                           tumour necrosis factor; B cell proliferation; B cell differentiation; immunosuppressive; immunostimulant; immunomodulator; antirheumatic; antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency; systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
                                                                                          WO200202641-A1
                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                        BLys; B lymphocyte stimulator; TNF superfamily, tumour necrosis factor; B cell proliferation; B
                                                                                                                                                                                                                                                                                                                                                                                 19-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABP47180 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New bradykinin analogues are disclosed which include intramolecular cyclisation via side chains to provide a rigid structure having enhanced affinity for the bradykinin receptors. Specifically, amino acid substitutions are made at positions 2 and 5 or 6 to facilitate cyclisation of the peptide through covalent bonding. Examples of suitable substitutions are Cys for disulphide bonding and Lys with cluor app for amide bond formation. An additional residue is added the contraction of the peptide through covalent bonding and Lys with cluor app for amide bond formation. An additional residue is added the contraction of the contraction of the peptide through covalent bonding and Lys with cluor app for amide bond formation. An additional residue is added the contraction of the contraction of the contraction of the contraction of the peptide through covalent bonding and Lys with cluor app for amide bond formation. An additional residue is added the contraction of the covalent bonding and covalent bonding and Lys with cluor applications of the covalent bonding and Lys with contraction of the peptide through covalent bonding and Lys with contraction of the peptide through covalent bonding and Lys with contraction of the peptide through covalent bonding and Lys with contraction of the peptide through covalent bonding and Lys with covalent bonding and Lys with contraction of the covalent bonding and Lys with contraction of the covalent bonding and Lys with covalen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cuts, rashes, etc., and also for tre
asthma, allergies, rhinitis, shock,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The peptic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         low blood pressure.
The present sequence
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                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                SCFV VH CDR3 SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    peptide; 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating angina, arthrok, inflammatory bowel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          peptide(s) - used for treating
arthritis, asthma, allergies,
                                                                                                                                                                                                                                                                                                                             IJ
                                                                                                                                                                                                                                                                                                                                3191.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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Qy
                                                   Matches
                                                                         Query Match
Best Local
                                                                                                                                                                                                         cytostatic, immunosuppressive, immunostimulant, immunomoulatory, antirheumatic and antiANDS activity and can be used in vaccines to inhibit the expression and activity of BLys. The antibodies bind to BLys and so may be used to detect and quantitate the presence of BLys in associated with aberrant expression of BLys. They may also be administered to treat diseases associated with aberrant ELYS expression and activity such as cancer, immune, and autoimmune disorders and immunodeficiency (e.g. common variable immunodeficiency (c.g. common variable immunodeficie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-JUN-2000;
17-OCT-2000;
16-MAR-2001;
21-MAR-2001;
25-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention describes novel antibodies that immunospecifically bind to B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the tumour necrosis factor (TNF) super family and induces B cell proliferation and differentiation. The antibodies of the invention have
                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Antibodies against B Lymphocyte the diagnosis and treatment of c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2; Page 3131;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-114799/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (CAMB-)
  1 GGFDP 5
                                                                                                                                                                                                       invention.
                                                 Similarity
5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HUMAN GENOME SCI IN CAMBRIDGE ANTIBODY
                                                                                                                                                     11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barash SC,
                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2000US-212210P.
; 2000US-240816P.
; 2001US-276248P.
; 2001US-277379P.
; 2001US-293499P.
                                                                                                                                                     AA;
                                                                         100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Choi GH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TECHNOLOGY.
                                              0;
                                                                         Score 31; |
Pred. No. 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancers and :
                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Vaughan
                                                                                               DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         j polypeptides, useful for
immune disorders -
                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hilbert
                                                                                       Length 11;
                                        Indels
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                                      Gaps
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RESULT 3
AAE16188
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                     25-MAY-2000;
                                      23-MAY-2001;
                                                                        WO200190143-A2
                                                                                       Bordetella bronchiseptica.
                                                                                                         therapy; antibiotic;
                                                                                                                                                                                  AAE16188 standard; peptide; 56
                                                        29-NOV-2001
                                                                                                                                                   26-MAR-2002
                                                                                                                                                                     AAE16188;
                                                                                                                           bronchiseptica strain I-3 pertactin outer membrane protein region I.
                                                                                                                                                                                                                               7 GGFDP 11
                                                                                                                PRN;
                                      2001WO-EP06457
                     2000US-206969P
                                                                                                                                                 (first entry)
                                                                                                   outer membrane protein; vaccine; Bordetella infection; otic; antibacterial; region I.
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(INSP) INST PASTEUR.

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RESULT
AAX7600
ID AA
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Skin; dermal papilla; keratinocyte; neonatal foreskin fibroblast; embryonic skin cell; keratinocyte stem cell; transit amplifying cell secreted; transmembrane; inflammation; cancer; neurological disease; angiogenesis; tumour vascularisation; growth disorder; developmental disorder; skin wound; hair follicle disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to Bordetella bronchiseptica pertactin (outer membrane protein) or their fragments. Pertactin (PRN) is used as vaccine. Pertactin antibody is useful for treating Bordetella infections and used to detect Bordetella antigens in biological preparations or in purifying corresponding proteins, glycoproteins or their mixtures when used in affinity chromatographic columns. Pertactin is useful as antigens to identify antibodies to Bordetella in materials such as human or other animal cells, as well as biological fluids, such as human or other animal body fluids, including human sera, and to determine the concentration of Ab in those materials. Thus the
Claim 4; Page 124; 235pp; English
                                                                                                                                                                                                                                                                                     29-APR-1998;
09-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                 04-NOV-1999
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                                                                                                                                                                                                                                                                                                                                                                 29-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   anti-inflammatory; cytostatic; neuroprotective; vulnery.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Skin; dermal papilla; keratinocyte;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antigens can be used for qualitative or quantitative determination of Bordetella in a material. The present sequence is B. bronchiseptica pertactin outer membrane protein region I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polypeptides containing polymorphisms of the repeated regions of pertactin in Bordetella species, useful in immunogenic compositions treating infections caused by Bordetella and in diagnostic methods
                                                                                                                                                                                                                               (GENE-) GENESIS RES & DEV CORP LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9955865-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Murine skin cell protein,
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                                                     including wounds and cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                        polynucleotides useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                56 AA;
                                                                                                                                                                                  Sleeman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                98US-0069726.
98US-0188930.
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                                                                           for
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ID NO:181.
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                                                                           the
                                                                                                                                                                               Onrust
                                                                           treatment of various
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB
44;
                                                                                                                                                                            'n
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                                                                                                                                                                            Kumble
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                                                                           conditions
                                                                                                                                                                            Murison
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell;
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*866666666666666666666666
                                                                                                                                                           dermal papilla, human keratinocytes and neonatal foreskin fibroblasts, and mouse embryonic skin, keratinocyte stem cells and transit amplifying cells. Polypeptides of the invention may be used to treat inflammation, cancer and neurological diseases. The proteins may be used to stimulate the growth and motility of keratinocytes, to inhibit the growth of cancer cells, to modulate angiogenesis and tumour vascularisation, to modulate skin inflammation, to modulate epithelial cell growth and to inhibit binding of HIV-1 to leukocytes. The invention may also be used to treat growth and developmental defects, skin vounds and hair follicle disorders. Sequences ANY75942-Y76121 represent polypeptides encoded by cDNA sequences ANY75947-Y7547, ANY76020-Y76021, ANY76094-Y76104 and hair cell types. Sequences ANY75947-Y7547, ANY76020-Y76021, ANY76094-Y76104 and hair cell types.
                                                                          AAY76119 are proteins with an N-terminal signal sequence, indicating that they are secreted. Sequences AAY75986-Y75989, AAY76061-Y76071, AAY76106-Y76109 and AAY76111-Y76122 are proteins with one or more
                                                          putative transmembrane domains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    to novel nucleic acid sequences derived
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AAY76065
                                   Ö
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                                                               Matches
                                                                      Query Match
Best Local :
AAY76065 standard; Protein;
                                   51
                                                1 GGFDP 5
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| GGFDP 55
                                                              Similarity 100 5; Conservative
                                                                     100.
                                                                     .0%;
60
                                                              0
                                                                     Score 31;
Pred. No.
                                                              Mismatches
                                                                     DB
47;
                                                              0,
                                                              Indels
                                                             0;
                                                             Gaps
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Sequence

60

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21;

Length

60

0

AAY76065; Murine skin cell transmembrane protein, SEQ ID NO:320. 27-MAR-2000 (first entry)

anglogenesis; tumour vascularisation; growth disorder;
developmental disorder; skin wound; hair follicle disorder;
anti-inflammatory; cytostatic; neuroprotective; vulnery. embryonic skin cell; keratinocyte stem cell; transit secreted; transmembrane; inflammation; cancer; neurol Skin; dermal papilla; keratinocyte; neonatal foreskin fibroblast; neurological disease; amplifying cell;

Mus sp.

29-APR-1998; 09-NOV-1998; 29-APR-1999; 04-NOV-1999 WO9955865-A1 98US-0069726. 98US-0188930. 99WO-NZ00051

ŗ Sleeman ĭ Watson â Onrust ₽, Kumble ۶ Murison į;

(GENE-) GENESIS RES & DEV CORP LTD.

WPI; 2000-072177/06.

Novel

polynucleotides useful for

the

treatment

0f

various

conditions

wounds and cancer

4.

188;

235pp;

English.

The invention relates to novel nucleic acid sequences derived from rat dermal papilla, human keratinocytes and neonatal foreskin fibroblasts, and mouse embryonic skin, keratinocyte stem cells and transit amplifying cells. Polypeptides of the invention may be used to treat inflammation,

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RESULT 6
AAB55942
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Best Local
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The present sequence is a polypeptide which is expressed in mammalian skin cells. The polypeptide is useful for stimulating keratinocyte growth and motility, inhibiting the growth of cancer cells, modulating angiogenesis, inhibiting angiogenesis and vascularisation of tumours, modulating skin inflammation, stimulating the growth of epithelial cells, inhibiting the binding of human immunodeficiency virus (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and neurological diseases. The polynucleotide can be used as a marker, in the identification of genetic disorders, and for the design of oligonucleotides for examining expression patterns.
                                                                                                                                                                                                                                                                                                          Claim 4;
                                                                                                                                                                                                                                                                                                                                                            New isolated polynucleotide used in the identification of genetic disorders and encoding polypeptides used for treating inflammatory disease, cancer and neurological diseases -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Watson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nouse; skin cell; cytostatic; antiinflammatory; anti-HIV; nootropic; neuroprotective; vulnerary; immunomodulatory; vaccine; keratinocyte growth stimulation; cancer; angiogenesis inhibition; inflammation; neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cancer and neurological diseases. The proteins may be used to stimulate the growth and motility of keratinocytes, to inhibit the growth of cancer cells, to modulate angiogenesis and tumour vascularisation, to modulate skin inflammation, to modulate epithelial cell growth and to inhibit binding of HIV-1 to leukocytes. The invention may also be used to treat growth and developmental defects, skin wounds and hair follicle disorders. Sequences AAY75942-Y76123 represent polypeptides encoded by cDNA sequences derived from several mouse, rat or human skin cell types. Sequences AAY75942-Y75947, AAY76021, AAY76094-Y76104 and AAY76119 are proteins with an N-terminal signal sequence, indicating that they are secreted. Sequences AAY75986-Y75989, AAY76061-Y76071, AAY76106-Y76109 and AAY76121-Y76122 are proteins with one or more putative transmembrane domains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAC99600
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GENE-) GENESIS RES & DEV CORP LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cell protein,
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5; Conserv
                                                                                                                                                                                                                                                                                                       Page
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                       161;
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                                                                                                                                                                                                                                                                                                                                                 and neurological diseases
                                                                                                                                                                                                                                                                                                 352pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ļ
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kumble KD,
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GGFDP 5 GGFDP

Matches

Local

Similarity 5; Conserv

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Mismatches

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Score Pred.

22;

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RESULT

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RESULT 7
AAAB56004
ID AAB56004
ID AAB56004
ID AAB56004
AC AAB5
XX AAB5
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XX AM
DT 08-1
XX MOU
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PN WO21
YX W 15-1
XX H14-1
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Best Local S
Matches 5
                  Query Match
                                                               The present sequence is a polypeptide which is expressed in mammalian skin cells. The polypeptide is useful for stimulating keratinocyte growth and motility, inhibiting the growth of cancer cells, modulating anglogenesis, inhibiting anglogenesis and vascularisation of tumours, modulating skin inflammation, stimulating the growth of epithelial cells, inhibiting the binding of human immunodeficiency virus (HIV)-1 to leukocytes, and treating inflammatory disease, cancer and neurological diseases. The polynucleotide can be used as a marker, in the identification of genetic disorders, and for the design of oligonucleotides for examining expression patterns.
                                             Sequence
                                                                                                                                                                                                                                     Claim 4;
                                                                                                                                                                                                                                                         New isolated polynucleotide used in the identification of genetic disorders and encoding polypeptides used for treating inflammatory disease, cancer and neurological diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                            14-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-MAY-2000; 2000WO-NZ00075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse; skin cell; cytostatic; antiinflammatory; anti-HTV; nootropic; neuroprotective; vulnerary; immunomodulatory; keratinocyte growth stimulation; cancer; angiogenesis inh
                                                                                                                                                                                                                                                                                                                                                                                            (GENE-) GENESIS RES & DEV CORP LTD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23-NOV-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inflammation; neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Skin cell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB56004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAB56004 standard; Protein; 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
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DB; AAC99703.
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                                                                                                                                                                                                                                     Page
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                                             60 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                 254; 352pp; English.
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Pred. No.
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No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22;
                                                                                                                                                                                                                                                                                                                                                               Kumble
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                                                                                                                                                                                                                                                                                                                                                            Murison JG;
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ABB7220
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Best Local
                                                                                                                                                                                                                                                              Matches
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                      Human; rat; mouse; skin cell; skin wound; cancer; growth defect;
developmental defect; inflammatory disease; dermatological; vulnerary;
immunomodulator; anti-inflammatory; cytostatic; neuroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; rat; mouse; skin cell; skin wound; cancer; growth defect; developmental defect; inflammatory disease; dermatological; vuln immunomodulator; anti-inflammatory; cytostatic; neuroprotective.
                                                                                                 04-APR-2002
                                                                                                                         ABB72204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polynucleotides and polypeptides encoded by the polynucleotides isolated from skin cells, useful for treating skin wounds, cancers, growth and developmental defects, inflammatory diseases, or for modulating immune responses
Mus sp
                                                                        Murine protein
                                                                                                                                              ABB72204 standard; Protein;
                                                                                                                                                                                                                                                                                                              Sequence
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25-JUL-2000;
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                                                                                                                                                                                                             51 GGFDP
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5; Conser
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2000US-221232P.
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                                                                     isolated from skin cells SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protein;
                                                                                               entry)
                                                                                                                                                                                                                                                                       100.0%;
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                                                                                                                                                                                                                                                            Score 31; DF Pred. No. 47; Mismatches
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47;
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                                                                                                                                                                                                                                                                                   Length 60;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kumble
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The present invention provides the protein and coding sequences of cDNAs isolated from human, murine and rat skin cell libraries. The sequences can be used in the development of therapeutic agents useful in the treatment of skin diseases, including skin wounds, cancer, growth defects, developmental defects and inflammatory diseases. The proteins have important roles in the induction of hair growth, cell proliferation and cell-cell interaction, in maintaining tissue integrity, in wound healing and in modulating immune responses. The present sequence is a polypeptide of the invention.
                                                                                                                                                                                                                 New polynucleotides and polypeptides encoded by the polynucleotides isolated from skin cells, useful for treating skin wounds, cancers, growth and developmental defects, inflammatory diseases, or for modulating immune responses -
                                                                                                                                                                                      Example 2; Page 210; 466pp; English
                                                                                                                                                                                                                                                                                                                                                                                                    24-MAY-2000;
25-JUL-2000;
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                                                                                                                                                                                                                                                                                                                                       Watson
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                                                                                                                                                                                                                                                                                                                                     Strachan
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2000US-221232P.
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                                                                                                                                                                                                                                                                                                                                    Sleeman M,
                                                                                                                                                                                                                                                                                                                                                                     LTD.
                                                                                                                                                                                                                                                                                                                                    Onrust R,
                                                                                                                                                                                                                                                                                                                                     Murison
                                                                                                                                                                                                                                                                                                                                    'n,
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Kumble KD;

Matches Query Match Best Local 51 _ GGFDP GGFDP 5 Similarity 5; Conserv 55 100.0%; llarity 100.0%; Conservative 0; Score Pred. red. No. 47; Mismatches DB 47; 23; 0 Length Indels 60 0 Gaps 0

Sequence

60

A,

AAB51430 ID AAB AAB51430 standard; Protein;

83

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16-FEB-2001 (first entry)

secreted protein BLAST search protein SEQ

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ŏ: 107 AAB51430;

Human

Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiuncer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparastic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder cardiant; gene therapy; neurological disease; i

Homo sapiens.

WO200058495-A1

05-OCT-2000

23-MAR-2000; 2000WO-US07661

26-MAR-1999; 07-JAN-2000; 99US-0126504. 2000US-0174847.

(HUMA-) HUMAN GENOME SCI INC

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medical conditions

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RESULT 11
AAB51431
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                     Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder
                                               WPI; 2000-611720/58
                                                                                                                                           26-MAR-1999; 99US-0126504.
07-JAN-2000; 2000US-0174847.
                                                                                                           (HUMA-) HUMAN GENOME
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                                                                                                                                                                                                                                                                                                                                neurological
                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                              Human secreted protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAB51431 standard; Protein; 83
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New nucleic acid molecules encoding 45 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions used as food additives or preservatives -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                present invention.
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                                                                            Ruben SM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                83 AA;
                                                                                                                                                                                                                                                                                                                                disease;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                           SCI INC
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                                                                            Komatsoulis
                                                                                                                                                                                                                                                                                                                              infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                       BLAST search protein SEQ ID
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Pred. No.
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                                                                                                                                                                                                                                                                                                                            human; secreted
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to the isolation of genes AAC93310-C93354 encoding the human secreted proteins AAB51380-B51423. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated from a range of human antibodies and (ant)agonists are useful in the diagnosis, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone, bone, breast, former additional cancer and other cancer and the cancer and cancer and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       healing; (e) neurological ulseuse viral, bacterial, and (f) infectious diseases such as viral, bacterial, carasitic infections. The present sequence is a prote-
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                             1 GGFDP
                                                                                                                                                                                                                        Local Similarity
les 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (e) neurological diseases e.g. cerebral anoxia and epilepsy; infectious diseases such as viral, bacterial, fungal and infections. The present seminance in the present semi
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nilarity 100.
Conservative
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                                                                                                                                                                                                                                                                                .08;
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Pred. No.
                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                               Length 83;
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AAB51438; AAB51438 standard; Protein; 83 51 GGFDP 55

Human secreted protein BLAST search protein SEQ ID NO:

16-FEB-2001

(first entry)

antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disord cardiant; gene therapy; neurological disease; i immunosuppressive; nootropic; neuroprotective; antiviral; human; secreted protein.

WO200058495-A1

05-OCT-2000.

23-MAR-2000; 2000WO-US07661.

26-MAR-1999; 07-JAN-2000; 2000US-0174847. 99US-0126504

(HUMA-) HUMAN GENOME SCI INC

Ruben SM, Komatsoulis G

WPI; 2000-611720/58

New nucleic acid molecules encoding 45 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions used as food additives or preservatives and

Disclosure; Page 377; 410pp; English

New nucleic acid molecules encoding 45 human secreted

proteins

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В
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
 The invention relates to the isolation of genes AAC93310-C93354 encoding the human secreted proteins AAB51380-B51423. This sequence represents a fragment of the protein encoded by the gene isolated in the present invention. The sequence is used as a query sequence for doing BLASTX
                                                                                                                    New nucleic acid molecules encoding 45 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions used as food additives or preservatives -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ant)agonists are useful in the diagnosis, treatment and prevention of:
(a) cancer, e.g. breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, Theumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases eguital habeterial functions and (f) infectious diseases such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              peptide fragment homologous to the protein encoded by the gene iso in the present invention. The sequence is a search result from a H homology search. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g., by protein or get therapy. The genes are isolated from a range of human tissues disc in the specification. The nucleic acids, proteins, antibodies and
                                                                                                                                                                                                                                                                                                  26-MAR-1999;
07-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cytostatic: immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antinifiammatory; antidiabetic; antifingal; antiparastic; vulnerary; antiporvulsant; antibacterial; antifingal; antiparastic; cardiant; gene therapy; cancer; immune disorder; |cardiovascular disorder;
                                                                                     Disclosure; Pages 377-378; 410pp; English
                                                                                                                                                                                                WPI;
                                                                                                                                                                                                                                                                                                                                                   23-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human secreted
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                                                                                                                                                                                                                                Rosen
                                                                                                                                                                                                                                                               (HUMA-) HUMAN GENOME
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                                                                                                                                                                                                                                                                                                                                                                                                                        WO200058495-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           neurological disease;
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                                                                                                                                                                                              2000-611720/58
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                                                                                                                                                                                                                             Ruben SM,
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2000US-0174847.
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                                                                                                                                                                                                                                                               SCI INC
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                                                                                                                                                                                                                               Komatsoulis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         infection;
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Pred. No. 64;
); Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       human; secreted protein.
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64;
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doing BLASTX
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RESULT 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   searches to determine homologous sequence to the protein. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated for may a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and covarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune theoroiditis, diabetes mellitus (c) cancers of the darenal gland, bone to the amenity tic anaemia, autoimmune thyroiditis, diabetes mellitus and concersive colitis; (c) cardiovascular disorders such as myocardial conversative colitis; (c) cardiovascular disorders such as myocardial conversative colitis; (c) cardiovascular disorders such as myocardial conversative colitis; (d) cond healing; (e) neurological diseases e.g. cerebral conversation and epilepsy; and (f) infectious diseases such as viral, or bacterial, fungal and parasitic infectious.
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Best Local
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US6380370-B1
                                         Staphylococcus
                                                                                     antibacterial;
                                                                                                       Staphylococcus
                                                                                                                                                                                                                                          ABP40272;
                                                                                                                                                   Staphylococcus
                                                                                                                                                                                                 24-JUL-2002
                                                                                                                                                                                                                                                                                   ABP40272 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                               51
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                                                                                                                                                                                                                                                                                                                                                                                               GGFDP 55
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5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
clarity 100.0%;
Conservative
                                                                                                                                                                                          (first entry)
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                                                                                                       epidermidis;
                                                                                                                                              epidermidis ORF amino acid sequence SEQ ID NO:5117.
                                         epidermidis.
                                                                                     gene
                                                                                therapy
                                                                                                       open reading frame; ORF; bacterial infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
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Pred. No.
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ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading frame (ORF) nucleic acid sequences which encode the amino acid sequences given in ABP35124 to ABP37960. The S. epidermidis sequences have antibacterial activity and can be used in gene therapy. The sequences can also be used in the diagnosis and treatment of bacterial infections, particularly S. epidermidis infections. The sequences can be used to screen for compounds able to interfere with the S. epidermidis life cycle or inhibit S. epidermidis infection.

N.B. The sequence data for this patent did not form part of the printed
                                                                                                                                                                                                                                        N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                       13-AUG-1998;
                                                                                                                                                                   Disclosure;
                                                                                                                                                                                          Novel isolated nucleic acid encoding a Staphylococcus epidermidis polypeptide, useful for diagnosing and treating bacterial infections
                                                                                                                                                                                                                                          WPI; 2002-381255/41.
N-PSDB; ABN92817.
                                                                                                                                                                                                                                                                                                                                            14-AUG-1997;
08-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                    30-APR-2002
                                                                                                                                                                                                                                                                                                               (GENO-) GENOME
                                                                                                                                                                SEQ ID 5117; 267pp; English.
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                                                                                                                                                                                                                                                                                                                THERAPEUTICS CORP
                                                                                                                                                                                                                                                                                                                                            97US-055779P.
97US-064964P.
                                                                                                                                                                                                                                                                                                                                                                                         98US-0134001
epidermidis infection. lata for this patent did not form part of the printed was obtained in electronic format directly from the
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USPTO web

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CC The sequence comprises the first 95 amino acid residues of the Cl alpha chain of the class II MHC from human DQA1*0101. It contains CC a highly conserved region that is maintained across alleles and CC species (see also AM21827 and AM21828). A novel method of suppressing CC an immune response comprises administering a class II MHC alpha CC chain, or a fragment (see also AM21830-32), that can suppress at CC least one of the following: a mixed lymphocyte reaction or other CC T-cell allorecognition reaction; generation of cytotoxic T-cells CC antigen; and slimulatory cytokine production by lymphocytes. Immune CC responses that can be abated or suppressed include alloimmunity Cc (e.g. in organ transplantation) and autoimmunity (e.g. in multiple CC sclerosis or rheumatoid arthritis). Immune responses can be down-transmer-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
AAW21829
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Best Local S
Matches 5
                                                                                                                                                                                                                                                Claim 10; Fig 1A-B; 55pp; English.
                                                                                                                                                                                                                                                                               Suppression of immune responses with major histocompatibility complex class II peptide(s) - useful in alloimmunity, e.g. organ transplantation, and autoimmunity, e.g. in multiple sclerosis or rheumatoid arthritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Key
Region
                                                                                                                                                                                                                                                                                                                                                   WPI; 1997-202534/18.
                                                                                                                                                                                                                                                                                                                                                                            Carpenter CB, Murphy BT,
                                                                                                                                                                                                                                                                                                                                                                                                                                     21-SEP-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-SEP-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Immunosuppression; major histocompatibility complex class II; MHC; mixed lymphocyte reaction; allorecognition; cytotoxic T cell; alloimmunity; autoimmune disease; organ transplant; multiple sclerosis; rheumatoid arthritis; DQAI*0101.
                                                                                                                                                                                                                                                                                                                                                                                                        (AUTO-) AUTOIMMUNE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27-MAR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9710711-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAW21829 standard; Protein; 95
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              96WO-US15662
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "alpha chain aa62-77 conserved region (Claim 11)"
                                                                                                                                                                                                                                                                                                                                                                             Sayegh MH;
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Pred. No. 70;
0; Mismatches
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Matches 5; Conserv
55 GGFDP 59
        1 GGFDP 5
                             Conservative
                                   100.0%;
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                                   Score 31;
Pred. No.
                            Mismatches
                                          DB 18;
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Search completed: March 17, 2003, 12:08:55 Job time: 32.3333 secs

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Minimum
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Listing first 45 summaries
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Perfect score:
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1: /cgn2_6/ptodata/2,
2: /cgn2_6/ptodata/2,
3: /cgn2_6/ptodata/2,
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12.260 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /cgn2_6/ptodata/2/1aa/5A_COMB.pep: *
/cgn2_6/ptodata/2/1aa/5B_COMB.pep: *
/cgn2_6/ptodata/2/1aa/6A_COMB.pep: *
/cgn2_6/ptodata/2/1aa/6B_COMB.pep: *
/cgn2_6/ptodata/2/1aa/B_COMB.pep: *
/cgn2_6/ptodata/2/1aa/PCTUS_COMB.pep: *
/cgn2_6/ptodata/2/1aa/backfiles1.pep: *
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     US-09-188-930-181
US-09-188-930-320
US-09-134-001C-5117
US-08-345-809A-110
US-08-481-985B-110
US-08-481-985B-110
US-08-481-985B-110
US-08-486-134-1
US-08-486-134-1
5340934-11
5340934-11
US-08-887-534A-45
US-08-633-770A-1
US-08-633-770A-2
US-08-637-70A-2
US-08-337-70A-2
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Sequence 181, App Sequence 310, App Sequence 5117, App Sequence 110, App Sequence 110, App Sequence 110, App Sequence 110, App Sequence 12, Appl Sequence 1, Appl Sequence 1, Appl Sequence 1, Appl Sequence 4, Appl Sequence 4, Appl Sequence 4, Appl Sequence 5, Appl Sequence 3, Appl Sequence 2, Appl Sequence 3, Appl Sequence 3, Appl Sequence 2, Appl Sequence 22, Appl
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US-09-188-930-181
; Sequence 181, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
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Result No.

4	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26
80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
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Sequence 4, Appli	Sequence 17, Appl	Sequence 2, Appli	Sequence 1, Appli	Sequence 26, Appl					•	Sequence 15, Appl	•-		Sequence 16, Appl		Sequence 22, Appl	Sequence 22, Appl	Sequence 22, Appl

ALIGNMENTS

CURRENT APPLICATION NUMBER: US/99/188,930A CURRENT FILLING DATE: 1998-11-09 NUMBER OF SEQ ID NOS: 348 SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 320	APPLICANT: MUTISON, James Greg TITLE OF INVENTION: Compositions Isolated From Skin Cells TITLE OF INVENTION: and Methods For Their Use FILE REFERENCE: 11000.1011c1	0.0	RESULT 2 US-09-188-930-320 ; Sequence 320, Application US/09188930A	Qy 1 GGFDP 5 Db 51 GGFDP 55	Query Match 100.0%; Score 31; DB 4; Length 60; Best Local Similarity 100.0%; Pred. No. 12; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps	LENGTH: 60 ; LENGTH: 60 ; TYPE: PRT ; ORGANISM: mouse US-09-188-930-181	; CURRENT APPLICATION NUMBER: US/09/188,930A ; CURRENT FILING DATE: 1998-11-09 ; NUMBER OF SEQ ID NOS: 348 ; SOFTWARE: FastSEQ for Windows Version 3.0 ; SOFTWARE: FastSEQ for Windows Version 3.0	NT: Murison, James G F INVENTION: Composi- F INVENTION: and Met FERENCE: 11000.1011c	Sleeman, Onrust,	Õ

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RESULT 4
US-08-545-809A-110
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                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 110, Application US/08545809A Patent No. 6096878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC-007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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SEQ ID NO 5117
LENGTH: 91
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Matches 5; Conserv
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APPLICANT: Honjo, Tasuku
APPLICANT: Matsuda, Fumil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/134,001C CURRENT FILING DATE: 1998-08-13 PRIOR APPLICATION NUMBER: US 60/064,964 PRIOR FILING DATE: 1997-11-08 PRIOR APPLICATION NUMBER: US 60/055,779 PRIOR FILING DATE: 1997-08-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
                   APPLICATION NUMBER:
                                                                            OPERATING SYSTEM: Windows95
SOTTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                        APPLICANT: Matsuda, Fumihiko
TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE
TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME
                                                   APPLICATION NUMBER: US/0 FILING DATE: 27-MAR-1996
                                                                                                                                                                                             COUNTRY: US
ZIP: 02110-2804
                                                                                                                                             COMPUTER:
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mes 5; Conserv
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JMBER: PCT/JP93/00603
10-MAY-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEX: 200154 INFORMATION FOR SEQ ID NO:
                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS-/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tent No.
                                                                        REFERENCE/DOCKET NUMBER: 03
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
                             SEQUENCE CHARACTERISTICS
                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 15-NOV-1991
CLASSIFICATION: 530
                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/801,818
FILING DATE: 05-DEC-1991
                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                          REGISTRATION NUMBER:
                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 07-JUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET:
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mes 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Freeman, John W. REGISTRATION NUMBER: 29,066
           ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GGFDP 5
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amino acid
                                                                                                                                         Potter, Jane E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Washington
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             255 amino acids
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Kourilsky, Philippe
VENTION: An Altered Major Histocompatibility
                                                             202-408-4400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     617-542-8906
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
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                                            110:
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Pred. No. 23;
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; MOLECULE TYPE: US-08-484-905-110

peptide

Best Loc Matches

Local Similarity hes 5; Conserv

100.0%; ilarity 100.0%; Conservative

0

Score 31; Pred. No. Mismatches

DB 49;

0

Indels

0

Gaps

0,

2

Length 255;

Query Match

RESULT 6 US-08-481-985B-110

GENERAL INFORMATION:

Estelle

APPLICANT:

Abastado, Jean-Pierre Kourilsky, Phillipe VENTION: Altered Major Histocompatibility Complex

CORRESPONDENCE ADDRESS:

CITY: Washington

ADDRESSEE: Finnegan, Henderson, Farabow, ADDRESSEE: Dunner
STREET: 1300 I Street, N.W., Suite 700

Garrett &

NUMBER OF SEQUENCES: TITLE OF INVENTION:

148

FILING DATE: 07-JUN-CLASSIFICATION: 435 PRIOR APPLICATION DATA:

07-JUN-1995

US/08/481,985B

PRIOR APPLICATION DATA:

US 07/792,473

CLASSIFICATION:

APPLICATION NUMBER: US 0 FILING DATE: 05-DEC-1991

US 07/801,818

CURRENT APPLICATION DATA:

PatentIn

Release #1.0, Version #1.25

APPLICATION NUMBER:

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

tent No.

0, Application US/08481985B

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78 GGFDP 82

1 GGFDP 5

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Query Match
Best Local :
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                                                                                                                                                                 TELEFAX: 20
INFORMATION FOR
                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 07/801,818 FILING DATE: 05-DEC-1991 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                 MOLECULE TYPE:
                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US FILING DATE: 06-JUN-199
                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: CFILING DATE: 07-SEP-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Dunner
STREET: 1300 I Street, N.W., Suite 700
                 Local
                                                                                               TOPOLOGY:
                                                                                                                              LENGTH:
                                                                                                                                                                                                  TELEPHONE:
                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION:
 Similarity 5; Conserv
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20005-3315
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                                                                                                                                255 amino acids
100.0%; illarity 100.0%; Conservative
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Lone, Yu-Chun
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Abastado, Jean-Pierre
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                                                                                                                                                                 SEQ ID NO:
                                                                                                                                                                                                  202-408-4000
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                                                                                 peptide
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15-NOV-1991
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               Score 31;
Pred. No.
                             DB 4; Length 255;
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RESULT 7
US-08-370-476-110
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                                                                                                 Query Match
Best Local
                                                                                    Matches
                                                                                                                                                                                              TELEFAX: 202-408-4400 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                           78
                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                  REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US 0 FILING DATE: 15-NOV-1991
                                                                                               Local
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                                                         GGFDP 5
                                           GGFDP 82
                                                                                   h 100.0%;
Similarity 100.0%;
5; Conservative 0
                                                                                                                                                             : 255 amino acids
amino acid
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Pred. No.
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                                                                                                       Length
                                                                                   Indels
                                                                                                         255;
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RESULT 8 US-08-047-033-12

Sequence 12, Application US/08047033 Patent No. 5444157

NERAL INFORMATION:
APPLICANT: FUJIO SUZUKI et al.
TITLE OF INVENTION: CHONDROMODULIN-I PROTEIN
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:

Wenderoth, Lind & Ponack

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78 GGFDP 82

1 GGFDP 5

Matches

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Indels

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US-08-047-033-12
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FRAGMENT TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                               POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 21 amino acids
                                                                                                                                                                             PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Warren M. Cheek Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
                                                                                                                                                                                                                                                                                                                                                      IMMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HYPOTHETICAL:
                                                                                                                                                                                                                                                        EATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
      FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
                                                                                                                                 TITLE:
JOURNAL:
                                                                                                                                                                                         LOCATION: IDENTIFICATION METHOD: OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                      CELL TYPE:
                                                        DOCUMENT NUMBER:
                                                                                                                                                                                                                                                                                                                                                                          ORGANELLE:
                                                                                                                     VOLUME:
                                                                                                                                                               AUTHORS:
                                                                                                                                                                                                                                       NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE TYPE:
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                                                                                                       ISSUE:
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amino acid
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                                                                                                                                                                                                                                                             Sequence 1, Application Patent No. 5814481 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 48
LENGTH: 2475
                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local (
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Mueller, Joachim
APPLICANT: Reichenbach, Hans
TITLE OF INVENTION: DNA sequences for enzymatic synthesis of polyketide or
FITLE OF INVENTION: heteropolyketide compounds
FILE REFERENCE: PCT/US 99/23535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT
                                                                                                                                                                                                          APPLICANT: Hillman, J
APPLICANT: Shah, Purv
TITLE OF INVENTION: N
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EARLIER FILING DATE: 1998-10-09
NUMBER OF SEQ ID NOS: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Brandt,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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                    SOFTWARE: FastSEQ for Windows Version CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Sorangium cellulosum
                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                  1059 GGYDP 1063
                                                                                                                                                                                           CORRESPONDENCE ADDRESS
                                                                                                                                     STREET: 31, CITY: Palo Alto
             APPLICATION NUMBER:
                                                 COMPUTER: IBM CON
OPERATING SYSTEM:
                                                                                                             COUNTRY: UZIP: 94304
                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
FILING DATE:
                                                                                                                                                               ADDRESSEE: Incyte Pharmaceuticals, Inc. STREET: 3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                           1 GGFDP 5
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FILING DATE: 1999-10-07
FILING DATE: 1999-10-07
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                                                                                                                                                                                                                                                                                          Application US/08846134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dougherty, bire.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cino,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bloecker,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gesellschaft fuer Biotechnologische Forschung mbH
Bristol-Myers Squibb, Co.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Beyer, Stefan
                                                                                                                           USA
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                                                               IBM Compatible
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Herewith
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                                                                                                                                                                                                             NOVEL HEAT SHOCK-LIKE PROTEIN
                                                                                                                                                                                                                                                 Jennifer L.
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80.0%;
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           US/08/846,134
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Pred. No. 1.8e+03
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Pred. No.
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Mismatches (
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CLASSIFICATION: 435

APPLICATION NUMBER:

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RESULT 11
5340934-11
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Best Local Similarity
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US-09-470-512A-9
                                                                                                                                                                                                                                                                  US-09-470-512A-9
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                                                                          GENERAL INFORMATION:
APPLICANT: PhageTech, Inc.
APPLICANT: PhageTech, Inc.
TITLE OF INVENTION: Compositions and methods involving an essential Staphylococcus
TITLE OF INVENTION: gene and its encoded protein
FILE REFERENCE: 21715/1000
CURRENT APPLICATION NUMBER: US/09/470,512A
CURRENT APPLICATION NUMBER: US/09/470,512A
CURRENT FILING DATE: 1999-12-12
NUMBER OF SEQ ID NOS: 16
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO:11:
                                                                                                                                                                                                                                Sequence 9, Application US/09470512A Patent No. 6376652
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                                                                 SEQ ID NO 9
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SEQUENCE CHARACTERISTICS:
TYPE: PRT
ORGANISM: Staphylococcus aureus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: CDNA SEQUENCES OF HUMAN BONE MATRIX PROTEINS NUMBER OF SEQUENCES: 13
CURRENT APPLICATION DATA:
                                             ENGTH: 466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ent no. 5340934
APPLICANT: TERMINE, JOHN D.;YOUNG, MARIAN F.;FISHER, LARRY W.
BEY, PAMELA G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMMEDIATE SOURCE:
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| 233 GGFEP 237
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FILING DATE: 03-NOV-1989
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les 4; Conserv
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REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF
                                                                                                                                                                                                                                                                                                                                                                     1 GGFDP 5
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80.0%;
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Pred. No.
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US-08-887-534A-45
                                                                                                                                                                                                                                                                                                                                                                                                    TELEYAX: (312) 474-6300
TELEX: (312) 474-648
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 932 amino ---
TYPE:
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Best Local S
Matches 4
                                                                                                                            Sequence 1, Application US/08633770A Patent No. 5908760 GENERAL INFORMATION:
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Best Local Similarity
Matches 4; Conserv
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                                                                                 APPLICANT:
APPLICANT:
APPLICANT: Christensen, Tove
APPLICANT: Marcussen, Jan
TITLE OF INVENTION: ALPHA-1,4-GLUCAN LYASE FROM A FUNGUS, ITS
TITLE OF INVENTION: PURIFICATION GENE CLONING AND EXPRESSION IN MICROORGANISMS
NUMBER OF SEQUENCES: 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/887,534A
                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: 11
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEPHONE: (312) 474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                     798 GGFEP 802
                                                                                                                                                                                                                                                                                                              Local Similarity
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Rin-Laures, Li-Hsien REGISTRATION NUMBER: 33,54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER:
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233 South Wacker Drive/6300 Sears Tower
                                                                                               Yu, Shukun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Holden,
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                                                                                    Kragh,
                                                                                                                 Bojsen, Kirsten
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ANTI-BACTERIAL METHODS AND MATERIALS
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80.0%;
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Pred. No. 1.1e+03;
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Pred. No. 5
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RESULT 15
US-08-633-770A-2
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          COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/633,770A
FILING DATE: July 8, 1996
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
APPLICANT:
PRIOR APPLICATION DATA:
                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe, Martens, Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: ALPHA-1,4-GLUCAN LYASE FROM A FUNGUS, ITS
TITLE OF INVENTION: PURIFICATION GENE CLONING AND EXPRESSION IN MICROORGANISMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Altman, Daniel E
REGISTRATION NUMBER: 34,115
REFERENCE/DOCKET NUMBER: DY:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 714,760-0404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/F
FILING DATE: OCT-15-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein
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MEDIUM TYPE: Diskette
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08, FILING DATE: July 8, 1996 CLASSIFICATION: 435
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s 4; Conservative
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Marcussen, Jan
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Kragh, Karsten
'--ansen, Tove
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80.0%;
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Pred. No. 1
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                     Qy 1 GGFDP 5
                                             Query Match
Best Local Similarity
Watches 4; Conserve
                                                                                                                    ; MOLECULE TYPE: protein US-08-633-770A-2
                                                                                                                                                                          INFORMATION FOR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
LENGTH: 1070 amino acids
                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: 714-760-0404
                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT//
FILING DATE: OCT-15-1994
ATTORNEY/AGENT INFORMATION:
NAME: Altman, Daniel E
REGISTRATION NUMBER: 34;
666 GGFEP 670
                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                     REFERENCE/DOCKET NUMBER:
                                                                                                                                                              amino acid
                                                           Conservative
                                                                                                                                                                                                                                         714-760-9502
                                                                                                                                                   linear
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80.0%;
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                                                                        Score 27; DB 2;
Pred. No. 1.2e+03;
                                                          Mismatches
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Gaps

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Search completed: March 17, 2003, 12:11:50 Job time: 14 secs

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Result
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Maximum DB seq
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                                                                                                                                                                                                                                                                                                                                                                                                                         is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodata/1/pubpaa/U
2: /cgn2_6/ptodata/1/pubpaa/U
3: /cgn2_6/ptodata/1/pubpaa/U
4: /cgn2_6/ptodata/1/pubpaa/U
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Listing first 45 summaries
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/cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
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US-09-925-299-978

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US-09-741-669-415

US-09-741-669-415

US-09-741-669-465

US-09-795-926-27

US-09-795-926-39

US-09-795-926-39

US-09-795-926-39

US-09-795-926-33

US-09-795-926-33

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US-09-795-926-33

US-09-795-926-33
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US-09-866-050A-181
US-09-866-050A-320
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                                             Sequence 181, App
Sequence 320, App
Sequence 5, Apli
Sequence 978, App
Sequence 978, App
Sequence 415, App
Sequence 455, App
Sequence 39, Appl
Sequence 39, Appl
Sequence 31, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 21, Appl
Sequence 23, Appl
Sequence 24, Appl
Sequence 43, Appl
Sequence 43, Appl
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Sequence
Sequence
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US-09-925-302-763	925-299	US-09-925-299-1538	US-09-925-299-1537	US-09-796-692-900	US-09-864-761-39345	US-09-864-761-48856	US-10-042-417-79	US-09-864-761-44563	US-09-864-761-39675	US-09-739-907-166	US-09-873-459A-42	US-09-832-312-51	US-09-738-626-5077	US-10-101-464A-982	US-09-893-519A-43	US-09-820-843A-21	US-09-738-626-6593	US-09-754-998-2	US-09-280-197-6	US-09-423-126-4	US-09-280-197-5	US-09-423-126-3	US-09-815-242-12615	US-09-815-242-5356	US-09-970-516-4
e 763,	1539,		1537,		Sequence 39345, A			44.5	3967	166,	42,	ന	5077,			Sequence 21, Appl	6593		ر. ق		Sequence 5, Appli	Sequence 3, Appli	Sequence 12615, A	Sequence 5356, Ap	Sequence 4, Appli

ALIGNMENTS

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Query Match
Best Local Similarity
watches 5; Conserv
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US-09-866-050A-181
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ORGANISM: Bordetella
US-09-855-754-9
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                                                           Sequence 181, Application US/09866050A Publication No. US20030040471A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn
SEQ ID NO 9
LENGTH: 56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 9, Application US/09855754
Publication No. US20020192237A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PERTACTIN IN BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS

FILE REFERENCE: 03495-0206-00000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
    APPLICANT: Watson, James D. APPLICANT: Strachan, Lorna APPLICANT: Sleeman, Matthe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH:
                                                                                                                                                                                                   23
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Strachan, Lorna
Sleeman, Matthew
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Pred. No. 10;
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: LENGTH: 60
; TYPE: PRT
; ORGANISM: Mouse
US-09-866-050A-320
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US-10-194-975-5
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                                                                                                              Sequence 5, Application US/10194975
Publication No. US20030039649A1
GENERAL INFORMATION:
APPLICANT: Foote, Jefferson
TITLE OF INVENTION: Super Humanized Antibodies
FILE REFERENCE: 501231.01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/866,050:
CURRENT FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 725
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 320
                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local
                       CURRENT APPLICATION NUMBER: US/10/194,975
CURRENT FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 181
LENGTH: 60
TYPE: PRT
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APPLICANT: Onrust, Rene
APPLICANT: Murison, James G.
APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated From Skin Cells
TITLE OF INVENTION: and Methods for Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
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TITLE OF INVENTION: Compositions Isolated From Skin Cells
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 11000.1011c4U
CURRENT APPLICATION NUMBER: US/09/866,050A
CURRENT FILING DATE: 2001-05-24
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NO 5
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Sleeman, Matthew
Onrust, Rene
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nilarity 100.0%;
Conservative (
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Pred. No.
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CURRENT APPLICATION NUMBER: US/09/925,299
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 978
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US-09-729-674-170
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                                                                                                                                                                                                           Sequence 978, Applic Publication No. US20 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 170
LENGTH: 193
TYPE: PRT
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Best Local Similarity
Matches 5; Conserv
                                                                                                                                                         APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 170, Application US/09729674
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APPLICANT: Genetics Institute, Inc.

TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM

FILE REFERENCE: 6055-64X

FILE REFERENCE: 1055-64X

CURRENT APPLICATION NUMBER: US/09/729,674

CURRENT FILING DATE: 2000-12-04

CURRENT FILING DATE: 2000-12-04
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TYPE: PRT
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Spaulding, Vikki
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Treacy, Maurice
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Pred. No. 34;
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                                                                                   ; ORGANISM: Escherichia coli
US-09-741-669-415
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Best Local Similarity
"atches 5; Conserv
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; ORGANISM: Homo sapiens
US-09-925-299-978
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-299-978
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                            Matches
                                                     Query Match
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                                                                                                                                                                PRIOR APPLICATION NUMBER:
PRIOR FILING DATE: 1999
NUMBER OF SEQ ID NOS: 48
                                                                                                                                                                                                       FILE REFERENCE: ELITRA.009A
CURRENT APPLICATION NUMBER: US/09/741,669
CURRENT FILING DATE: 2000-12-19
                                                                                                                                                                                                                                                 APPLICANT: Zyskind, Judith W.
TITLE OF INVENTION: Genes identified as required for
TITLE OF INVENTION: proliferation of E. coli
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CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
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TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA102
                                                                                                                                       SOFTWARE: F
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NUMBER OF SEQ ID NOS: 1556
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                                                                                                               LENGTH: 419
TYPE: PRT
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es 5; Conservative
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                            Similarity
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                                                                                                                                                      FastSEQ
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Ohlsen, Kari L.
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                            Conservative
                                                                                                                                                    for Windows Version 4.0
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                       100.0%; Score 31; DB 10; 100.0%; Pred. No. 72; cive 0; Mismatches 0;
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Query Match
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; ORGANISM: homo US-09-795-926-27
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US-09-795-926-27
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US-09-741-669-465
                                                                SEQ ID NO 27
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                                                                                                                          CURRENT APPLICATION NUMBER: US/09/795,926
CURRENT FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/185,920
PRIOR FILING DATE: 2000-02-29
PRIOR APPLICATION NUMBER: US 60/186,558
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/191,849
                                                                                              NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                         APPLICANT: Potter, David George
TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME
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CURRENT FILING DATE: 2000-12-19
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                                               LENGTH: 269
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| 124 GGFDP 128
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Ohlsen, Kari L.
Zyskind, Judith W.
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Wilganowski, Nathaniel
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Turner, C. Alexander Jr.
Friedrich, Glenn
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$20020098486A1
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             sapiens
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Query Match

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Best Local Similarity
Matches 4; Conserva

80.0%;

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RESULT 12
US-09-795-926-31
; Sequence 31, Application US/09795926
; Patent No. US20020098486A1
; Patent No. US20020098486A1
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; TYPE: PRT
; ORGANISM: homo sapiens
US-09-795-926-39
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US-09-795-926-39
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Best Local Similarity 80.0
Matches 4; Conservative
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PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/191,849
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSEQ for Windows Version 4
SEQ ID NO 36
SEQ ID NO 36
                                                                                              APPLICANT:
                                                                                                                              APPLICANT:
 FILE
   APPLICANT: POTTER, DAVID GEOIGE
TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
TITLE OF INVENTION: POLYMUCLEOTIDES ENCODING THE SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 39,
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PRIOR APPLICATION NUMBER: US 60/185,920
PRIOR FILING DATE: 2000-02-29
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TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME
FILE REFERENCE: LEX-0144-USA
CURRENT APPLICATION NUMBER: US/09/795,926
CURRENT FILING DATE: 2001-02-28
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333 GGYDP 337
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REFERENCE: LEX-0144-USA
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                                                                                           Wilganowski, Nathaniel L.
                                                                                                                       Abuin, Alejandro
Zambrowicz, Brian
Sands, Arthur T.
                                                                                                                                                                       Hilbun, Erin
Turner, C. Alexander
Friedrich, Glenn
                                                                                                             Walke, D. Wade
                                                           Kieke, James Alvin
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Zambrowicz, Brian
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Turner, C. Alexander
Friedrich, Glenn
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Walke, D. Wade
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Pred. No. 2
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RESULT 14 US-09-795-926-43 ; Sequence 43, Application US/09795926

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CURRENT FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/185,920
PRIOR FILING DATE: 2000-02-29
PRIOR APPLICATION NUMBER: US 60/186,558
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/191,849
PRIOR APPLICATION NUMBER: US 60/191,849
PRIOR FILING DATE: 2000-03-24
NUMBER FILING DATE: 2000-03-24
                                                                   Query Match
Best Local Similarity
Matches 4; Conserv
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SEQ ID NO 29
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LENGTH: 506
TYPE: PRT
ORGANISM: homo sapiens
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Patent No. US20020098486A1
                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Potter, David George
TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME
FILE REFERENCE: LEX-0144-USA
CURRENT APPLICATION NUMBER: US/09/795,926
CURRENT FILING DATE: 2001-02-28
                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/186,558
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/191,849
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                                                                                                                                                    LENGTH: 535
TYPE: PRT
ORGANISM: homo sapiens
                                                                                                                                                                                                                                      PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 47
                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/185,920 PRIOR FILING DATE: 2000-02-29
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SOFTWARE: FastSEQ for Windows Version 4.0
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| 236 GGYDP 240
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Turner, C. Alexander Jr.
Friedrich, Glenn
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Zambrowicz, Brian
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Pred. No. 3.6e+02;
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Pred. No.
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APPLICANT: POTTER: DAVIG GEOTGE
TITLE OF INVENTION: NOVEL HUMAN TRANSFERASE PROTEINS AND
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING THE SAME
FILE REFERENCE: LEX-0144-USA
CURRENT APPLICATION NUMBER: US/09/795,926
CURRENT FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 60/185,920
PRIOR FILING DATE: 2000-02-29
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/186,558
PRIOR FILING DATE: 2000-03-02
PRIOR APPLICATION NUMBER: US 60/191,849
PRIOR APPLICATION NUMBER: US 60/191,849
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FASTSEQ FOR WINDOWS VERSION 4.0
SEQ ID NO 43
LENGTH: 603
TYPE: PRI
ORGANISM: homo sapiens
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US-10-001-851-2
Sequence 2, Application US/10001851
Sequence 2, OS20020115628A1
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                                                                                                                                                        ; LENGTH: 603
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-001-851-2
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                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/001,851
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: US 60/249,939
PRIOR FILING DATE: 2000-11-20
NUMBER OF SEQ ID NOS: 29
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 2
SEQ ID NO 2
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Best Local Similarity 80.0%;
Matches 4; Conservative
                                                                               Matches
                                                                                                                  Query Match
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APPLICANT: WILLIAMSON, Mark
TITLE OF INVENTION: 47169 and 33935, No. US20020115628A1el Human Glycosyl Transferasu
TITLE OF INVENTION: Uses Thereof
FILE REFERENCE: 10147-5601
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333 GGYDP 337
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                                                                                           y Match 90.3%;
Local Similarity 80.0%;
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Walke, D. Wade
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Turner, C. Alexander Jr.
Friedrich, Glenn
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Zambrowicz, Brian

    Mismatches

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Pred. No. 4e+02;
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hypothetical prote	TSP		~		flbN protein precu	hypothetical prote	oxygen-insensitive	probable aldehyde	hypothetical prote	T-cell surface gly	T-cell receptor ze	Ig heavy chain pre	Ig heavy chain V r	Ig heavy chain V r	Ig heavy chain V r	

ALIGNMENTS

A;Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles.
A;Reference number: I36899; MUID:92307745; PMID:1612647
A;Accession: I37040
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-62 (RES>
A;Cross-references: GB:M76212; NID:g177024; PIDN:AAA35459.1; PID:g553157
A;Cross-references: GB:M76212; NID:g177024; PIDN:AAA35459.1; PID:g553157 gene MHC DQ-alpha 1 protein - common gibbon (fragment)
C;Species: Hylobates lar (common gibbon, white-handed gibbon)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: 137040
R;Kenter, M; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, R.E.
Immunogenetics 36, 71-78, 1992 C;Species: Pan troglodytes (chimpanzee)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: 136967
R;Kenter, M; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, R.E. Immunogenetics 36, 71-78, 1992 밁 Ş A;Cross-references: GB:M76189; NID:g176840; PIDN:AAA35428.1; PID:g553156 C;Superfamily: class II histocompatibility antigen; immunoglobulin homology A; Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles. A; Reference number: 136899; MUID:92307745; PMID:1612647 A; Accession: 136967 gene MHC DQ-alpha 1 protein - chimpanzee (fragment) C;Species: Pan troglodytes (chimpanzee) RESULT 137040 밁 Q RESULT I36967 A; Molecule type: DNA A; Residues: 1-62 < RES> A; Status: preliminary; translated from GB/EMBL/DDBJ Query Match Best Local Query Match
Best Local Similarity
Matches 5; Conserv Matches N 38 GGFDP Local Similarity nes 5; Conserv 38 GGFDP 42 1 GGFDP 5 1 GGFDP 5 42 100.0%; Score 31; DE ilarity 100.0%; Pred. No. 13; Conservative 0; Mismatches 100.0%; Score 31; DB ilarity 100.0%; Pred. No. 13; Conservative 0; Mismatches DB 2; 2 0; 0 Length 62 Length 62 Indels Indels 0 0, Gaps Gaps 0 0

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gene MHC DQ-alpha 1 protein - orangutan (fragment)
C;Species: Pongo pygmaeus (orangutan)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: I61804
R;Kenter, M.; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, R.E.
Immunogenetics 36, 71-78, 1992
                                                                         A;Cross-references: GB:M76218; NID:g342851; PIDN:AAA36936.1; C;Superfamily: class II histocompatibility antigen; immunogic
                                                                                                                                                                        A:Title: Evolutionary relationships among the A:Reference number: I36899; MUID:92307745; A:Accession: I61804
                                                                                                                        A; Molecule type:
A; Residues: 1-62
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C;Superfamily: class II histocompatibility antigen; immunoglobulin homolo
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C;Species: Pongo pygmaeus (orangutan)
C;Date: 07-Jun-1996 *sequence_revision 07-
C;Date: 07-Jun-1996 *sequence_revision 07-
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A; Residues: 1-62 < RES>
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A; Residues: 1-62 < RES>
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ecies: Macaca mulatta (rhesus macaque)
te: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
         Local Similarity
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gene MHC DQ-alpha 1 protein - rhesus macaque (fragment) (;Species: Macaca mulatta (rhesus macaque) C:Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #tex
                                           A; Molecule type: DNA
A; Residues: 1-62 < RES>
                                                                                                                                        R; Kenter, M.; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, Immunogenetics 36, 71-78, 1992
       C; Superfamily: class
                          A; Cross-references:
                                                                           A; Status: preliminary;
                                                                                              A; Reference number: 136899;
A; Accession: 161800
                                                                                                            A; Title: Evolutionary relationships among ; A; Reference number: I36899; MUID: 92307745;
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A;Residues: 1-62 <RES>
A;Cross-references: GB:M76205; NID:g342147; PIDN:AAA36863.1;
C;Superfamily: class II histocompatibility antigen; immunogic
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C;Species: Macaca arctoides (stump-tailed macaque)
c;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: I61795
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A;Title: Evolutionary relationships among the primate MHC-DQA1 and A;Reference number: I36899; MUID:92307745; PMID:1612647
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C;Species: Macaca fascicularis (crab-eating macaque)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: I61797
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A; Residues: 1-62 <RES>
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PIDN:AAA36868.1;
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gene MHC DQ-alpha 1 protein - green monkey (fragment)
C:Species: Cercopithecus aethiops (green monkey, grivet)
C:Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
                                          C;Accession: 136900
R;Kenter, M.; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, R.E. Immunogenetics 36, 71-78, 1992
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C:Species: Macaca arctoides (stump-tailed macaque)
C:Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
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C:Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C:Accession: I61790
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A; Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles. A; Reference number: I36899; MUID:92307745; PMID:1612647
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C;Superfamily: class II histocompatibility antigen; immunoglobulin homol
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A;Tille: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles A;Reference number: I36899; MUID:92307745; PMID:1612647
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A; Residues: 1-62 < RES>
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Pred. No.
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Pred. No. 13;
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gene MHC DO-alpha 1 protein - rhesus macaque (fragment)
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: I61801
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A;Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles.
A;Reference number: I36899; MUID:92307745; PMID:1612647
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161787
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                                                                                                                                                                                  A;Cross-references: GB:M76228; NID:g342159; PIDN:AAA36869.1; PID:g342160 C;Superfamily: class II histocompatibility antigen; immunoglobulin homol
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A;Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles. A;Reference number: I36899; MUID:92307745; PMID:1612647
A;Accession: I61787
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C;Species: Macaca mulatta (rhesus macaque)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: I61787
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A; Residues: 1-63 < RES>
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A; Residues: 1-63 < RES>
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Pred. No.
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Pred. No. 13;
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gene MHC DQ-alpha 1 protein - rhesus macaque (fragment)
C;Species: Macaca mulatta (rhesus macaque)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change
C;Accession: I61789

23-Jul-1999

161789

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gene MRC DQ-alpha 1 protein - crab-eating macaque (fragment)
C;Species: Macaca fascicularis (crab-eating macaque)
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 23-Jul-1999
C;Accession: 161798
R;Kenter, M.; Otting, N.; Anholts, J.; Leunissen, J.A.M.; Jonker, M.; Bontrop, R.E.
Immunogenetics 36, 71-78, 1992
A;Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles.
A;Reference number: 136899; MUID:92307745; PMID:1612647
A;Accession: 161798
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-63 <RES>
A;Cross-references: GB.M76208; NID:g342153; PIDN:AAA36866.1; PID:g342154
C;Superfamily: class II histocompatibility antigen; immunoglobulin homology
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Search completed: March 17, 2003, 12:11:05 Job time: 13.333 secs
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161798
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A; Residues: 1-63 < RES>
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A;Title: Evolutionary relationships among the primate MHC-DQA1 and DQA2 alleles.
A;Reference number: 136899; MUID:92307745; PMID:1612647
A;Accession: I61789
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Best Local S
Matches 5
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38 GGFDP 42
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38 GGFDP 42
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nes 5; Conserva
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Perfect score:
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CD32_SHEEPA
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CD32_SHEEPA
CD32_SHEEPA
CD32_SHEEPA
CD32_SHEEPA
CUCSA
PSBP_CUCSA
PSBP_CUCSA
PSBP_CUCSA
PSBP_CUCSA
PSBP_CUCSA
PSBP_CUCSA
T4S9_HUMAN
DICH_DRONA
DICH_DRONA
THEL_COLL
DCMD_METTA
THESS_SULAC
YAGH_ECULA
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p45753 escherichia
Q951q8 cucumis sat
Q951q8 cucumis sat
Q950q8 fritillaria
Q60628 homo sapien
p32805 saccharomyc
Q94354 schizosacch
p13033 escherichia
Q50538 methanosarc
p17506 xenopus lae
Q9v2t4 sulfolobus
p77713 escherichia
p51718 bacteriopha
p48770 blastocladi
Q99127 ustilago ma
Q87386 rhizobium m
p83349 neurospora
Q55785 synechocyst
Q9x1h3 thermotoga
p57753 pseudomonas
Q9c1q3 pasteurella
Q91270 pseudomonas
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Ogrsh4 deinococcus
P29329 ovis aries
P22606 caulobacter
P01907 homo sapien
P45753 escherichia
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P44972 haemophilus
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1 1 1 1 1 1 1 1 1 1	Query Match Best Local Sim Matches 5;	EMBL; AE004093; AAF93183.1; TIGR; VC0005; InterPro; IPR002696; DUF37. Pfam; PF01809; DUF37; 1. ProDom; PD004225; DUF37; 1. TIGREAMS; TIGR00278; DUF37; 1. Hypothetical protein; Complete proteome SEQUENCE 85 AA; 9616 MW; 0289CE6770	is SWISS-PROT entry is copyright. It is produced through a tween the Swiss Institute of Bioinformatics and the EMBI e European Bioinformatics Institute. There are no restrict by non-profit institutions as long as its content if diffied and this statement is not removed. Usage by and titles requires a license agreement (See http://www.isb-silsend an email to license@isb-sib.ch).	"DNA sequence of both chromosomes of the cholera pathoge cholerae."; Nature 406:477-483(2000)!- SIMILARITY: BELONGS TO THE UPF0161 FAMILY.	SEQUENCE FROM N.A. STRAIN-El Tor N16961 / Serotype O1; STRAIN-El Tor N16961 / Serotype O1; MEDLINE-20406833; PubMed-10952301; Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwl Heidelberg J.F., Eisen J.A., Nelson W.C., Peterson J.D., Umayam Codson R.J., Haft D.H., Hickey E.K., Peterson J.D., Richardson Ermolaeva M.D., Vamathevan J., Bass S., Qin H., Dragol I., McDonald L., Utterback T., Fleischmann R.D., Nierman W.C., Salzberg S.L., Smith H.O., Colwell R.R., Mekalanos J.J., Ve Fraser C.M.;	O9KVY3; 16-OCT-2001 (Rel. 40, Created) 16-OCT-2001 (Rel. 40, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation update) 16-OCT-2001 (Rel. 40, Last annotation update) 40, Last annotation update) 41, VC0005. 42, VC0005. 43, VC0005. 44, VC0005. 55, VC0005. 56, VC0005. 66, VC0005. 66, VC0005.	ALIGNMENTS RESULT 1 YOO5_VIBCH ID YOO5_VIBCH STANDARD; PRT; 85 AA.	34 28 90.3 359 1 RFBG_SALTY P26397 35 28 90.3 376 1 EXD_DROME P40427 36 28 90.3 382 1 OYEA_SCHPO Q09670 37 28 90.3 391 1 CATE_CAVPO P25796 38 28 90.3 391 1 CATE_RAT P70269 40 28 90.3 397 1 CATE_RAT Q57688 41 28 90.3 421 1 Y236_METUA Q57688 42 90.3 473 1 VGLM_HSV11 P04288 43 28 90.3 552 1 THSB_SULTO Q52390 44 28 90.3 918 1 SCRA_LIMPO Q5390 45 27 87.1 164 1 PPIH_ECOLI P23869
	; Gaps 0;		ough a collaboration e EMBL outstation restrictions on its ent is in no way and for commercial isb-sib.ch/announce/	rio	nn M.L., L.A., D., Sellers P., White O.,	Vibrio.		salmonella drosophila schizosacch cavia porce mus musculu rattus norcy methanococc herpes simp sulfolobus limulus pol drosophila escherichia

RESULT 2 YIDD_HAEIN

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STRAIN=Rd / KW20 / ATCC 51907;

MEDLINE-95350630; PubMed-7542800;

Fleischmann R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F.,

Kerlavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Merrick J.M.,

McKenney K., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D.,

Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M.,

Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M.,

Weldman J.F., Phillips C.A., Spriggs T., Hedblom E., Cotton M.D.,

Witterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C.,

Fine L.D., Fritchman J.L., Fuhrmann J.L., Geoghagen N.S.M.,

Gnehm C.L., McDonald L.A., Small K.V., Fraser C.M., Smith H.O.,
     White O.,
               MEDLINE=20036896;
                              STRAIN-R1
                                                                         Bacteria; Thermus/Deinococcus
Deinococcaceae; Deinococcus
                                                                                                      Deinococcus
                                                                                                                   Hypothetical DR2150.
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Pfam; PF01809; DUF37; 1.
ProDom; PB004225; DUF37; 1.
TIGRPAMS; TIGR00278; DUF37; 1.
Hypothetical protein; Complete proteome.
SEQUENCE 86 AA; 9564 MW; 7AD4F4A5A27C20AB CRC64;
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P44972;
01-NOV-1995
01-NOV-1995
15-JUN-2002
                                                               \CBI_TaxID=1299;
                                                                                                                                                                                           YL50_DEIRA
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                                       EQUENCE FROM
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                                       N.A.
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 5; PubMed=10567266;
J.A., Heidelberg J
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D; Mismatches
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                                                                                                                                                                                                                                                                                  "Invariant components of the sheep T-cell antigen receptor: cloning of the CD3 epsilon and Tcr zeta chains.";

Immunogenetics 37:279-284(1993).

-!- FUNCTION: PROBABLE ROLE IN ASSEMBLY AND EXPRESSION OF THE TCR
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CD3Z_(
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ProPom; PD004225; DUF37; 1.
Proporthetical protein: Commission of the protein of th
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MEDLINE=93131305; Pu
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eute.

Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bovidae; Caprinae;
NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bovidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGR; DR2150; -.
InterPro; IPR002696;
Pfam; PF01809; DUF37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              P29329;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. between the Swiss Institute of Bio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Science 286:1571-1577(1999).
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                         FUNCTION: PROBABLE ROLE IN ASSEMBLY AND EXPRESSION OF THE TCR COMPLEX AS WELL AS SIGNAL TRANSDUCTION UPON ANTIGEN TRIGGERING. SUBUNIT: THE TCR/CD3 COMPLEX OF T LYMPHOCYTES CONSISTS OF EITHE TCR ALPHA/BETA OR TCR GAMMA/DELTA HETERODIMER COEXPRESSED AT TH CELL SURFACE WITH THE INVARIANT SUBUNITS OF CD3 LABELED GAMMA, DELTA, BESILON, ZETA, AND ETA.

SUBCELLULAR LOCATION: Type I membrane protein.

PTM: PHOSPHORYLATED ON TYR RESIDUES AFTER T-CELL RECEPTOR TRIGGERING (BY SIMILARITY).

SIMILARITY: BELONGS TO THE CD3Z/FCER1G FAMILY.

SIMILARITY: CONTAINS 3 TTAM DOMAINS.
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(Rel. 24, Last sequence update)
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ace glycoprotein CD3 zeta chain
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ilarity 100.0%;
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Pred. No.
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EA1201670EE9D1E3 CRC64;
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cora; Bovoidea;
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RESULT 5
FIGH_CAUCR
ID FIGH_C
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DT 01-AUG
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DE FLAGE1
GN FIGH C
OS Caulob
OC Bacter
OC Caulob
OX SEQUEN
RN [1]
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RN [1]
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RN I1]
RN I1]
RN I1Gent
RT C18-ac
RT G18-ac
RT G0mp
XX MEDLINE=21173698; PubMed=11259647;

XX MEDLINE=21173698; PubMed=11259647;

RA Nierman W.C., Feldblyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,

RA Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B.,

RA Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B.,

RA DeBoy R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H.,

RA KOlonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,

RA Utterback T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O.,

RA Salzberg S.L., Venter J.C., Shapiro L., Fraser Cl.M.;

RT "Complete genome sequence of Caulobacter crescentus.";

"Complete genome sequence of Caulobacter crescentus.";
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Best Local
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STRAIN-AFCC 19089 / CB15;
MEDLINE-91008987; PubMed-2211524;
MEDLINE-91008987; PubMed-2211524;
Dingwall A., Gober J.W., Shapiro L.;
Pidentification of a Caulobacter basal body structural gene and cis-acting site required for activation of transcription.";
J. Bacteriol. 172:6066-6076(1990).
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DOMAIN
DOMAIN
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STRAIN-ATCC 19089 /
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16-OCT-2001 (Rel. 40, Last sequence
16-OCT-2001 (Rel. 40, Last annotati
Flagellar L-ring protein precursor
FLGH OR FLBN OR CC2066.
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SIGNAL
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the Euro
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NCBI_TaxID=155892;
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InterPro; IPR003110; IT
Pfam; PF02189; ITAM; 3.
SMART; SM00077; ITAM; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Proteobacteria; alpha subdivision; Caulobacter
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PIR; S22980; 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGFDP 94
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5; Conserv
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ein precursor (Basal body
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CYTOPLASMIC
ITAM 1.
ITAM 2.
ITAM 3.
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T-CELL SURFACE
CHAIN.
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E7D89AD84E58311A CRC64;
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Pred. No.
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                                                                                                                                                                                                             21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation updat
HLA class II histocompatibility antigen, DQ
(DC-1 alpha chain).
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This SWISS-PROT entry is copyright. It is produced through a collal between the Swiss Institute of Bioinformatics and the EMBL outsi the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for cor
                                                                     "Isotypic and allotypic variation histocompatibility antigen alpha-Nature 308:327-333(1984).
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InterPro; IPR000437; Prok_lipo
Pfam; PF02107; F1gH; 1;
PRINTS; PR01008; FLGLRINGFLGH.
PROSITE; PS00013; PROKAR_LIPOE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See
                                                                                                       MEDILNE-84168117; PubMed-6584734;
MEDILNE-84168117; PubMed-6584734;
Auffray C., Lillie J.W., Arnot D.
Strominger J.L.;
                                                                                                                                                                              Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                          HA25_HUMAN
P01907;
                                                                                                                                                                  NCBI_TaxID=9606
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                                                                                                                                                                                                      Homo sapiens (Human)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       equires a license agreement (See http://www.isb-sib.ch/announce/email to license@isb-sib.ch).
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ilarity 100.0%;
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POTENTIAL.
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alpha-chain
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N-ACYL DIGLYCERIDE (PROBABLE).
AASANSLWRVGAR -> REGOLAVAGRGP (;
1)
S -> R (IN REF. 1).
NA -> KP (IN REF. 1).
P -> R (IN REF. 1).
MISSING (IN REF. 1).
V -> L (IN REF. 1).
                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                       Score 31;
Pred. No.
                                                                                                                                                                            Craniata; Vertebrata; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                          7C08BEACF1D5BA30 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ght. It is produced through Bioinformatics and the EN
                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                  Grossberger D.,
                                                                                                                                                                                                                                                                                                                                                                                                                  31;
                                                                                            human class
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en, DQ(5)
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InterPro; IPR003597; Ig_c1.
InterPro; IPR001003; MHC_II_alpha.
Pfam; PF00047; 1g; 1.
Pfam; PF00993; MHC_II_alpha; 1.
SMARR; SM00407; IGc1; 1.
                                                         use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                        EMBL; U18997; AAA58192.1; ALT_INIT EMBL; AE000414; AAC76420.1; ALT_IN: EcoGene; EG12925; yrfD.
                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions
                                                                                                                                                            "The complete genome sequence of Escherichia coli K-12."; Science 277:1453-1474(1997).
                                                                                                                                                                               SEQUENCE FROM N.A.

STRAIR-K12 / MG1655;

MEDLINE-97426617; PubMed-9278503;

MEDLINE-97426617; PubMed-9278503;

Blatther F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,

Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,

Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,

Mau B., Shao Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN
TRANSMEM
DOMAIN
DISULFID
                Hypothetical
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CARBOHYD
                                                                                                                                                                                                                                                                                             Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                      01-NOV-1995 (Rel. 32, Created)
16-0CT-2001 (Rel. 40, Last sequence up
16-0CT-2001 (Rel. 40, Last annotation
Hypothetical protein yrfD.
TRED OR B3395.
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P45753;
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DOMAIN
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license@isb-sib.ch).
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BY SIMILARITY.
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
; 2E33F13105919571 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DQ(5) ALPHA CHAIN.
EXTRACELLULAR ALPHA-1.
EXTRACELLULAR ALPHA-2.
CONNECTING PEPTIDE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                      PRT;
proteome.
B3E8B4A0E4AB166D CRC64;
                                                                                                                                                                                                                                                                                             subdivision; Enterobacteriaceae;
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25;
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                                                                           http://www.isb-sib.
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                                                                PSBP_FRIAG
O49080;
 16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
0xygen-evolving enhancer protein 2, ch
kDa subunit of oxygen evolving system
                                                                                                                                                                                                                                                  TRANSIT
                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                      InterPro; IPR002683; PSII_Psbp.
Pfam; PF01789; Psbp; 1.
Photosynthesis; Photosystem II; Chloroplast;
Thylakoid; Membrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-cv. Aonagajibai;
Ifuku K., Kanda Y., Sato F.;
"Isolation of cucumber cDNA for the 23 kDa polypeptide of
evolving complex of photosystem II (PsbP).";
(In) Plant Gene Register PGR00-031.
                                                                                                                                                                                                                                                                                                                                                               use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cucumis sativus (Cucumber).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eu
eurosids I; Cucurbitales; Cucurbitaceae; Cucumis.

NCBI_TaxID=3659;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Oxygen-evolving enhancer protein 2, chloroplast precursor kDa subunit of oxygen evolving system of photosystem II) (subunit) (23 kDa thylakoid membrane protein) (OEC23).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-OCT-2001
16-OCT-2001
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                        or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                      EMBL; AB032245; BAA89317.1;
                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                  with the photosystem II complex.
-I- SIMILARITY: BELONGS TO THE PSBP FAMILY.
                                                                                                                                         178 GGFDP 182
                                                                                                                                                                                                                                                                                                                                                    entities requires a license agreement
                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9SLQ8;
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28138
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OXYGEN-EVOLVING ENHANCER PROTEIN
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chloroplast precursor (OEE2)
em of photosystem II) (OEC 23
                                      update)
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T4S9_HUMAN
O60628; O60
                                                                                                                                                                               SPECIES-Human;
SPECIES-Human;
MEDLINE-98390278; PubMed-9714763;
Todd S.C., Doctor V.S., Levy S.;
Todd S.C., Doctor V.S., Levy S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no regulated by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Panico E., Baysdorfer C.;
Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.
-- FUNCTION: MAY BE INVOLVED IN THE REGULATION OF PHOTOSYSTEM
-- SUBCELLULAR LOCATION: Chloroplast thylakold membrane; assoc
                                                                                                                                                                                                                                                                                                                                                                                                                             Transmembrane 4 superfamily, (Tetraspan NET-4).
TM4SF9 OR TSPAN5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-CCT-2001 (Rel. 40, Createu)
16-CCT-2001 (Rel. 40, Last sequence update)
16-CCT-2001 (Rel. 40, Last annotation update)
16-CCT-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (Mouse)
Eukaryota; Metazoa; (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Thylakoid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF01789; PsbP; 1.
Photosynthesis; Photosystem II; Chloroplast; Transit peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                               "New
                                                                                                                                                            Biochim. Biophys.
                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; AF037458; AAC04809.1;
InterPro; IPR002683; PSII_P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PSBP
    SEQUENCE FROM N.A
                                                                              Rubinstein E., Serru
                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9606, 10090;
                                                                                                                                                                                                                                                                                                                                              Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (Human), and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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Panico E., Baysdon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID-64177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Spermatophyta; Magnoliophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fritillaria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               subunit) (23 kDa thylakoid membrane protein).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GGFDP 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             with the photosystem II complex.
SIMILARITY: BELONGS TO THE PSBP FAMILY.
                                    nstein E., Serru V., Boucheix C.;
tetraspans identified in the EST database.";
itted (MAY-1998) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGFDP 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      060746;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         non-profit institutions as long a and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Membrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     264 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9JLY1;
                                                                                                                                                              Acta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   264
28111
                                                                                                                                                                                                                                                                                                                                                                 Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PSII_PsbP.
                                                                                                                                                            1399:101-104(1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .
WW.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptophyta; Embryophyta; Tracheophyta;
yta; Liliopsida; Liliales; Liliaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHLOROPLAST (BY SIMILARITY).
OXYGEN-EVOLVING ENHANCER PROTEIN; 1E214D433C95809B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                            Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB
26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          There are no restrictions ng as its content is in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5) (Tspan-5)
                                                                                                                                                                                                  tetraspanin/TM4SF
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FZF1_YEAST
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CARBOHYD
CONFLICT
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CARBOHYD
                                                                                 Eukaryota; Fungi; Saccharomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AF053455; AAC69712.1;
EMBL; AF065389; AAC17120.1;
EMBL; BC009704; AAH09704.1;
EMBL; AF121344; AAF28869.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPECIES-Mouse; STRAIN-Swiss Webster / NIH;
Garcia-Frigola C., de Lecea L., Soriano E.;
"Mouse Tspan-5 cDNA cloning.";
Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases.
01-OCT-1996
16-OCT-2001
                                                                                                                                                                                P32805;
01-OCT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINTS; PR00259; TMFOUR.
PROSITE; PS00421; TM4_1; FALSE_NEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute. use by non-profit institutions as 1 modified and this statement is not rem
                              SEQUENCE FROM N.A. STRAIN=W303;
                                                                   NCBI_TaxID=4932;
                                                                                                            Saccharomyces cerevisiae (Baker's yeast).
                                                                                                                          Zinc finger protein F2F1 (Sulphite resistance FZF1 OR SUL1 OR YGL254W OR NCR299.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSMEM
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                                                                                                                                                                                                             FZF1_YEAST
                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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    -!- SUBCELLULAR LOCATION: Integral membrane protein (Probable).
    -!- SIMILARITY: BELONGS TO THE TETRASPANIN (TM4SF) FAMILY.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A
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5; Conserv
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                                                                                                                                                                                                                                                                               61
                                                                                                                                                    (Rel.
                                                                                                                                                                                                                                                                                                                                                                                          268
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39
62
83
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transmembrane4;
                                                                                                                                                                                                           STANDARD;
  PubMed=8322518;
rice C., Schuste
                                                                                  Ascomycota; Saccharon; Saccharon
                                                                                                                                                   34, Last sequence update)
40, Last annotation updat
                                                                                                                                                                          27, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tm4sf9
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61
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                                                                                                                                                                                                                                                                                                                                                                                          Ŧ
  Schuster T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Webster / NIH;
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7F4480BD0FA6192D
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                                                                                  Saccharomycotina; Saccharomycetes; cetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                   N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        POTENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EXTRACELLULAR (POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                 Pred.
                                                                                                                                                                                                                                                                                                                                                              Score 31;
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ED (GLCNAC...)
ED (GLCNAC...)
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ED (GLCNAC...)
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                                                                                                                                      protein
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                                                                                                                                                                                                                                                                                                                                                                                         CRC64;
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(POTENTIAL).
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RESULT 12
MCH_XANAU
ID MCH_X
AC Q9RQ0
DT 15-JU
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Best Local
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InterPro; IPRUUVOLL,
Pfam; PR00096; zf-C2H2; 4.
PRINTS; PR00048; ZINCFINGER.
SMART; SM00355; ZnF_C2H2; 5.
SMART; SM00355; ZnF_C2H2; 3.
PROSITE; PS00028; ZINC_FINGER_C2H2_1; 3.
PROSITE; PS50157; ZINC_FINGER_C3H2_2; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; X67787; CAA47998.1; --
EMBL; X78104; CAA54996.1; --
EMBL; X78104; CAA54133.1; --
EMBL; X72776; CAA96974.1; --
PIR; S28554, S28554, S28554, PIR; S38555, S33655.
HSSP; P03001; 1TF3.
                           Q9RQ01;
                                             MCH_XANAU
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ZN_FING
CONFLICT
CONFLICT
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CONFLICT
         15-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TRANSFAC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Saccharomyces cerevisiae."; Yeast 10:1101-1110(1994).
                                                                                                                                             124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-S288c / FY1679;
MEDLINE-97127827; Pubm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Casalone E., C
Polsinelli M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A
STRAIN=S288C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Identification of a gene encoding a novel zinc finger protein Saccharomyces cerevisiae.";
Yeast 9:551-556(1993).
[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Cloning and characterization of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=95084637;
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                                                                                                                                                                                 GGFDP
                                                                                                                                             GGFDP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S0003223;
                                                                                                                                                                                                                     Similarity
5; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3223; FZF1.
IPR000822; Znf_C2H2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T03312;
                                                                                                                                           128
                                                                                                                                                                                 S
     (Rel. 41, Created)
                                                                                                                                                                                                                   100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1637; PubMed=7992510;
Colella C.M., Daly S.,
                                                                                                                                                                                                                                                                                             Ä,
                                             STANDARD;
                                                                                                                                                                                                                                                                                     36
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94
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                                                                                                                                                                                                                                                                                             MW;
                                                                                                                                                                                                                                                                                                       C2H2-TYPE.
C2H2-TYPE.
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C2H2-TYPE.
NUCLEAR LOCALIZATION S
C2H2-TYPE.
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H -> D (IN REF. 2).
T -> W (IN REF. 2).
N -> Y (IN REF. 2).
                                                                                                                                                                                                                 0;
                                                                                                                                                                                                               Score 31; DB
Pred. No. 30;
D; Mismatches
                                                                                                                                                                                                                                                                                       1 -> D (IN REF. 2).
1 -> W (IN REF. 1).
1 -> Y (IN REF. 2).
A4E7257F012B32FF (
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                                                                                                                                                                                                                                                                                                                                          DICH_DROME STANDARD; PRT; 382 AA 024533; 09VUD4; 15-DEC-1998 (Rel. 37, Created) 15-DEC-1998 (Rel. 37, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation update) SOX-domain protein dichaete (Fish-hook prot D OR FISH OR SOX7DD OR CG5893.
                  STRAIN=Oregon-R;
MEDLINE=97108761; PubMed=8951082;
MEDLINE=97108761; PubMed=8951082;
Russell S.R.H., Sanchez-Soriano N., Wright C.R., Ashburner M.;
"The Dichaete gene of Drosophila melanogaster encodes a SOX-dox
                                                                                                                                                                                                          Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapo Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID-7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                use by non-profit institutions as long modified and this statement is not removed entitles requires a license agreement (See or send an email to license@isb-sib.ch).
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J. Bacteriol. 181:5750-575(1999).

-I-FUNCTION: Catalyzes the hydrolysis of methenyl-H(4)MPT(+) to N(5)-
formyl-H(4)MPT (By similarity).

-I-CATALYTIC ACTIVITY: 5,10-methenyl-5,6,7,8-tetrahydromethanopterin
+ H(2)0 - N5-formyl-5,6,7,8-tetrahydromethanopterin.
-I-PATHWAY: H(4)MPT-dependent pathway of formaldehyde oxidation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF02289; MCH;
                                                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AF139593; AAD55896.1; -. HSSP; P94954; 1QLM.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
15-JUN-2002 (Rel. 41, Last annotation update)
15,NIO-methenyltetrahydromethanopterin cyclohydrolase (EC 3.5.4.27)
(Methenyl-H4MPT cyclohydrolase).
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Bacteria; Proteobacteria; alpha subdivision;
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la melanogaster
segmentation.";
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k protein).
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Abril J.F., Agbayani A., An H.-J., Andrews Pfannkoch C.R., Miklos G.L.G.,
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Abril J.F., Agbayani A., An H.-J., Andrews Pfannkoch C.R., Miklos G.L.G.,
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Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA
Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
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Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
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Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
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Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
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Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
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Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
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Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
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Chodson K., Downes M., Dugan Rocha S., Dunkov B.C., Dunn P.,
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HOStin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
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Hostin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
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RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
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RA Kilmel B.E., Kodira C.D., Krapit C., Krapit S., Kulp D., Lai Z.,
Lina X.,
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RA Harris N.M., Howy M., Murphy B., Murphy L., Muzny P.M., Nelson D.L.,
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Rahler C., Stella R., Standers R.D.C., Scheler F., Shan H.,
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Shue B.C., Siden Riamos I., Standson M., Skupski N.P., Smith T.,
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Rahler C., Standson R.M., Kolla M., Weissenbach J.,
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                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed.
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Development 122:3467-3475(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-20196006;
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Nambu P.A., Nambu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AND PAIR-RULE PROTEINS.
SUBCELLULAR LOCATION: NUCLEAR (Potential).
TISSUE SPECIFICITY: INITIALLY EXPRESSED IN A
PATTERN WHICH IS RAPIDLY REPLACED BY STRONG
                                                                                                                                                                                                                                                                                                  SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
X96419; CAA65279.1;
U68056; AAB49673.1;
AE003535; AAF49753.
                                                                                                                                                                          s requires a license agreement (See http://www.isb-sib.ch/announce/an email to license@isb-sib.ch).
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J.R.;
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                                                                                                                                                            RA Wood V. Gwilliam R., Hayles J., Baker S., Basham D., Bowman S., Stewart A., Ra Sagouros J., Peat N., Hayles J., Baker S., Basham D., Bowman S., Souros J., Peat N., Hayles J., Baker S., Basham D., Bowman S., Ra Brooks K., Brown D., Brown S., Chillingworth T., Churcher C.M., Ra Brooks K., Borown D., Brown S., Chillingworth T., Churcher C.M., Ra Gentles S., Goble A., Hamlin N., Harris D., Hidalgo J., Hodgson G., Ra Gentles S., Goble A., Hamlin N., Harris D., Hidalgo J., Hodgson G., Ra Holroyd S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K., Ra Holroyd S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K., Ra James K., Jones L., Jones M., Leather S., McDonald S., McLean J., Ra Mooney P., Moule S., Mangall K., Murphy L., Niblett D., Odell C., Ra McLean J., Volckaert S., Saunders D., Seeger K., Sharp S., Stevens K., Squares S., Stevens K., Starp S., Ste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ASSY_SCHPO
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Best Local
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094354;
30-MAY-2000
30-MAY-2000
15-JUN-2002
                                                           PATHWAY.
-!- SUBUNIT: HOMOTETRAMER (
-!- SIMILARITY: BELONGS TO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Schizosaccharomyces pombe
Eukaryota; Fungi; Ascomy
Schizosaccharomycetales;
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DNA_BIND 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-21848401;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN-97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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                                                                                                                                       diphosphate +
                                                                                                                                                    CATALYTIC ACTIVITY: ATP + L-citrulline + L-aspartate -
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5; Conserv
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142 210
224 251
293 298
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(Rel.
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                                                                                                                     L-argininosuccinate CYCLE, PENULTIMATE S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         es pombe (Fission yeast).
Ascomycota; Schizosaccharomycetes;
etales; Schizosaccharomycetaceae;
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39,
41,
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                                                               (BY SIMILARITY).
THE ARGININOSUCCINATE SYNTHASE FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence update)
annotation update)
(EC 6.3.4.5) (Citrulline--aspartate
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POLY-ALA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 31; DE
Pred. No. 38;
0; Mismatches
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                                                                                                                   ARGININE BIOSYNTHETIC
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Swiss Institute Bioinformatics

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                                                                                                     Yamamoto Y., Aiba H., Baba T., Hayashi K., Inada T., Isono K., Itoh T., Kimura S., Kitagawa M., Makino K., Miki T., Mitsuhashi N., Mizobuchi K., Mori H., Nakade S., Nakamura Y., Nashimoto H., Oshina T., Oyama S., Saito N., Sampei G., Satoh Y., Sivasundaram S. Tagami H., Takahashi H., Takeda J., Takemoto K., Uehara K., Wada C. Yamagata S., Horiuchi T.;
                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN-K12 / MG1655;
MEDLINB-97456617; Pubmed-9278503;
Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.
Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
Mau B., Shao Y.;
                                  analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS00564; ARGININOSUCCIN_SYN_1; 1.
PROSITE; PS00565; ARGININOSUCCIN_SYN_2; 1.
Arginine biosynthesis; Urea cycle; Ligase; ATP-binding.
NP_BIND 116 124 ATP (POTENTIAL).
SEQUENCE 410 AA; 46084 ATP (POTENTIAL)
"Construction of a contiguous 874-kb sequence of the - K12 genome corresponding to 50.0-68.8 min on the lianalysis of its sequence features.";

DNA Res. 4:91-113(1997).
                                                                                                                                                                                                                                                            MEDLINE=97349980;
                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                    Science
                                                                                                                                                                                                                                                                                                                                                                                               "The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (G-3-P dehydrogenase).
GLPB OR B2242.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JAN-1990 (Rel. 13, Created)
01-JAN-1990 (Rel. 13, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Anaerobic glycerol-3-phosphate dehydrogenase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Nucleotide sequence and gene-polypeptide relationships of the glpABC operon encoding the anaerobic sn-glycerol-3-phosphate dehydrogenase of Escherichia coli K-12.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=88227815; PubMed=3286606; Cole S.T., Eiglmeier K., Ahmed S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Weiner J.H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Escherichia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Escherichia coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=562;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AL034382; CAA22280.1; -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     382 GGFDP 386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteriol. 170:2448-2456(1988).
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                                                                                                                                                                                                                                                                                                                                                            complete genome sequence of Escherichia coli K-12."; nce 277:1453-1474(1997).
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TIGR00032; argG; 1.
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                                                                                                                                                                                                                                                    PubMed=9205837;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 31;
Pred. No.
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Best Local S
Matches 5
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USES FUMARATE OR NITRATE AS ELECTRON ACCEPTOR.

-1- CATALYTIC ACTIVITY: Sn-glycerol 3-phosphate + acceptor = glyceron phosphate + reduced acceptor.

-1- COFACTOR: FMN IS SALD TO BE ASSOCIATED WITH GLPB.

-1- PANHWAY: FIRST STEP IN THE TRANSFER OF REDUCING EQUIVALENTS FROM G-3-P TO A SHORT ELECTRON TRANSFER CHAIN TERMINATING WITH FUMARATE AS THE ULTIMATE ELECTRON ACCEPTOR.

-1- SUBUNIT: COMPOSED OF A CATALYTIC GLPA/B DIMER AND OF MEMBRANE BOUND GLPC.

-1- SUBCELLULAR LOCATION: LOOSELY BOUND TO THE CYTOPLASMIC MEMBRANE BOUND GLPC.
                                                                                                                            EcoGene; EG10392; glpB.
Oxidoreductase; Flavoprotein;
SEQUENCE 419 AA; 45357 MW;
                                                                                                                                                                                                             EMBL;
                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in
                                                                                                                                                                                                                                                                 use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                          EMBL; D90855; BAA160
PIR; B32006; DEECNB.
                                                                                                                                                                                                                                                           or send an email to license@isb-sib.ch).
386 GGFDP 390
                                1 GGFDP
                                                                                                                                                                                                                                                                                                                                                                             OFTEN OCCURRING IN VESICLES ASSOCIATED WITH FUMARATE REDUCTASE.
SIMILARITY: TO H.INFLUENZAE GLPB.
                                                                                                                                                                                                         M20938; AAA83865.1; -. AE000314; AAC75302.1; -.
                                                              Similarity
5; Conserv
                             u
                                                            Conservative
                                                                                                                                                                                        BAA16061.1; -.
                                                                           100.0%;
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                                                                          Score 31;
Pred. No.
                                                                                                                        FMN; Complete proteome. C8A2285AD09F4F55 CRC64;
                                                            Mismatches
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Search completed: March Job time : 11 secs 17, 2003, 12:07:14

GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                                                                                                                                            Score
                                                                                                                                                                                                                                                                                                                                                                                                                        SPTREMBL_21:*

1: sp_archea:*
2: sp_bacteria
3: sp_fungi:*
4: sp_human:*
5: sp_inverteb:
6: sp_mammal:*
7: sp_mhc:*
8: sp_organel1:
9: sp_phage:*
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Match
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1 ggfdp 5
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sp_bacteria:*
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sp_mammal:*
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098048 monachus sc
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019151 cercopithec
019161 cercopithec
019163 macaca mula
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ALIGNMENTS

Db RESULT 019142 ID OAC ODT 0	Ma Du Qu	SOFT	DA DA PL	RRR	22888 28888	G D D D D	RESULT O98048 ID O
1 GGFDF 5 1	Query Match 100.0%; Score 31; DB 7; Length 56; Best Local Similarity 100.0%; Pred. No. 48; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps	PEAM; PFUU993; MHC_II_AIPNA; 1. NON_TER 1 56 56 NON_TER 56 56 SECUENCE 56 AA; 6409 MW; E0738E707EC74E33 CRC64;	Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases. EMBL; AF093799; AACB3221.1; InterPro; IPR001003; MHC_II_alpha.	SEQUENCE FROM N.A. Armstrong P.S.; "Hawaiian monk seal DQA gene exon 2.";	Monachus schauinslandi (Hawaiian monk seal). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Pinnipedia; Phocidae; Monachus. NCBI_TaxID=29088;	Ol-MAY-1999 (TrEMBLrel. 10, Created) Ol-MAY-1999 (TrEMBLrel. 10, Last sequence update) Ol-DEC-2001 (TrEMBLrel. 19, Last annotation update) MHC class II antigen (Fragment). DQA.	LT 1 48 49 98048 PRELIMINARY; PRT; 56 AA. 098048:

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Matches 5
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                                                                                                                                                                                                                                                                                                                                       Pfam;
                                                                                                                                                                                                                                                                                                                                                    baboon (Theropithecus gelada), olive baboon (Papio anubis), baboon (Papio cynocephalus)."; Immunogenetics 46:185-366(1997).
EMBL; D88643; BAA22110.1; -...
InterPro; IPR001003; MHC_II_alpha.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=97364700; PubMed=9218546;
Mwenda J.M., Takenaka O., Kim H.-S., Yamamoto T., Gurja B.,
Katsumata Y., Bambra C.S., Uchihi R., Shotake T.,
Katsumata Y., Shotake T.,
Katsumata Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      baboon
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NCBI_TaxID=9555;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JAN-1998 (TrEMBLr
01-DEC-2001 (TrEMBLr
Mhc-DQA1 (Fragment).
                                                                                                                                                                                                                                                                                                       NON_TER
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Eukaryota; Metazoa; Chordata;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; D88579; BAA22103.1; -.
InterPro: IPR001003; MHC_II_alpha.
Pfam; PF00993; MHC_II_alpha; 1.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-BLM29;
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38
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                                                       1 GGFDP 5
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GGFDP
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42
                                                                                                                                                                                                                                         61
61 AA;
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                                                                                                                 Conservative
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(TrEMBLrel. 05, Last sequence update)
(TrEMBLrel. 19, Last annotation update)
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naka O., Kim H.-S.,
                                                                                                                                                                                                                                         7180 MW;
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17,
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                                                                                                          Score 31; DB
Pred. No. 52;
0; Mismatches
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Last annotation update)
                                                                                                                                                                                                                               EC413AB6DA741D73 CRC64;
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Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        035E3AB6DA63161E CRC64;
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Pred. No.
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Best Local
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Mwenda J.M., Takenaka O., Kim H.-S., Yamamoto T., Gurja B.,
Katsumata Y., Bambra C.S., Uchihi R., Shotake T.;
"Major histocompatibility complex DQA1 nucleotide sequences
baboon (Theropithecus gelada), olive baboon (Papio cynocephalus).";
Immunogenetics 46:365-366(1997).
EMBL; D88645; BAAZ2112.1; -.
InterPro; IPR001003; MHC_II_alpha.
                                                                                                                    Pfam; PF00993; MHC_II_alpha;
NON_TER 1 1
NON_TER 61 61
                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. STRAIN-PAN 2041;
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01-JAN-1998 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
Mhc-DQA1 (Fragment)
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                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mwenda J.M., Takenaka O., Kim H.-S., Yamamoto T., Gurja B., Katsumata Y., Bambra C.S., Uchihi R., Shotake T.;

"Major histocompatibility complex DQA1 nucleotide sequences of gelada baboon (Theropithecus gelada), olive baboon (Papio anubis), and yellow baboon (Papio cynocephalus),";

Immunogenetics 46:365-366(1997).

EMBL; D88644; BAA22111.1;

InterPro; IPR001003; MHC_II_alpha; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9555;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Papio anubis (Olive baboon).
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cercopithecinae;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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NCBI_TaxID=9555;
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                                                                                              61 AA;
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             Conservative
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                                                                                         EC413AB6DA741D73 CRC64;
                          Score 31;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Eutele Catarrhini; Cercopithecidae;
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Pred. No.
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Best Local Similarity
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Best Local
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01-JAN-1998
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SEQUENCE
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019159;
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"Nucleotide sequences of the major histocompatibility complex DQA1 locus of Cercopithecus monkeys.",
Immunogenetics 46:363-634(1997).
                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JAN-1998
01-JUN-2001
                                                                   SEQUENCE
                                                                                                                                   Pfam;
                                                                                                                                                                                                                                                                                            MEDLINE=97364699; PubMed=9218545;
                                                                                                                                                                                                                                                                                                                                                                                                     Cercopithecinae;
                                                                                                                                                                                                                                                                                                                                                                                                                         Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mhc-DQA1 (Fragment)
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                                                                                         NON_TER
                                                                                                                                                    InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleotide sequences of the major histocompatibility complex DQA1 ocus of Cercopithecus monkeys. ";
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                                                                                                                            PF00993; MHC_II_alpha;
                                                                                                                                                                    D88682; BAA22122.1;
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PF00993; MHC_II_alpha; 1.
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                                                                                                                                                IPR001003; MHC_II_alpha
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61 AA;
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(TrEMBLrel. 05,
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                                                                                                                                                                                                                                                                                                                                                                                                 Cercopithecus.
                                                                 7230 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Chordata;
    100.0%;
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                                                                 667A28157A740393 CRC64;
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      Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                       Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Craniata;
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Pred. No.
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DB
52;
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Mwenda J.M., Takenaka O., Kim H.-S., Bambra C.S., Uchlhi R., Shotake T.; "Nucleotide sequences of the major h. locus of Cercopithecus monkeys."; Immunogenetics 46:363-634(1997).
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01-JAN-1998 (TrEMBLrel.
01-JUN-2001 (TrEMBLrel.
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                                                                                                                                                                                                                               STRAIN-VER1621;
                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                      Cercopithecinae;
NCBI_TaxID=9534;
                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                        Cercopithecus aethiops (Green
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01-JAN-1998
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Mhc-DQAL (Fragment).
                   Wwenda J.M., Takenaka O., Kim H.-S., Yamamoto T., Kats Bambra C.S., Uchihi R., Shotake T.;
"Nucleotide sequences of the major histocompatibility locus of Cercopithecus monkeys.";
Immunogenetics 46:363-634(1997).
                                                                                                                                            SEQUENCE FROM N.A.
STRAIN=SYK269; PubMed=9218545;
MEDLINE=97364699; PubMed=9218545;
                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Cercopithecidae; Cercopithecus.
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MEDLINE-97364700; PubMed-9218546;
Mwenda J.M., Takenaka O., Kim H.-S., Yamamoto T.,
Katsumata Y., Bambra C.S., Uchihi R., Shotake T.;
"Major histocompatibility complex DQA1 nucleotide
baboon (Pheropithecus gelada), olive baboon (Papio cynocephalus).";
Immunogenetics 46:355-366(1997).
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SEQUENCE FROM N.A.
STRAIN=SYL120;
MEDLINE=97364699; PubMed=9218545;
Menda J.M., Takenaka O., Kim H.-S., Ya
Menda J.M., Uchihi R., Shotake T.;
Menda J.M., Sequences of the major his
                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
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Best Local :
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O19163;
O1-JAN-1998 (TrEMBLrel. 0:
O1-JAN-1998 (TrEMBLrel. 0:
O1-JUN-2001 (TrEMBLrel. 1:
Mhc-DQA1 (Fragment).
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                                                                                                            Eukaryota; Metazoa; Chordata; C
Mammalia; Eutheria; Primates; C
Cercopithecinae; Cercopithecus.
                                                                                                   NCBI_TaxID=36225;
                                                                                                                                    Eukaryota;
                                                                                                                                                    Cercopithecus mitis.
                                                                                                                                                                                                                                                                                                                                                                                                       NON_TER
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; V. Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciae; Cercopithecus.
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PF00993; MHC_II_alpha; 1.
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5; Conserv
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7394 MW;
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7291 MW;
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                                                                                                                        Catarrhini;
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Pred. No.
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Pred. No.
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                                                                                                                                     Vertebrata;
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i; Cercopithecidae;
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                                  Katsumata
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histocompatibility complex DQA1

Immunogenetics 46:363-634(1997).
EMBL; D88684; BAA22124.1; -.
InterPro; IPR0011003; MHC_II_alpha

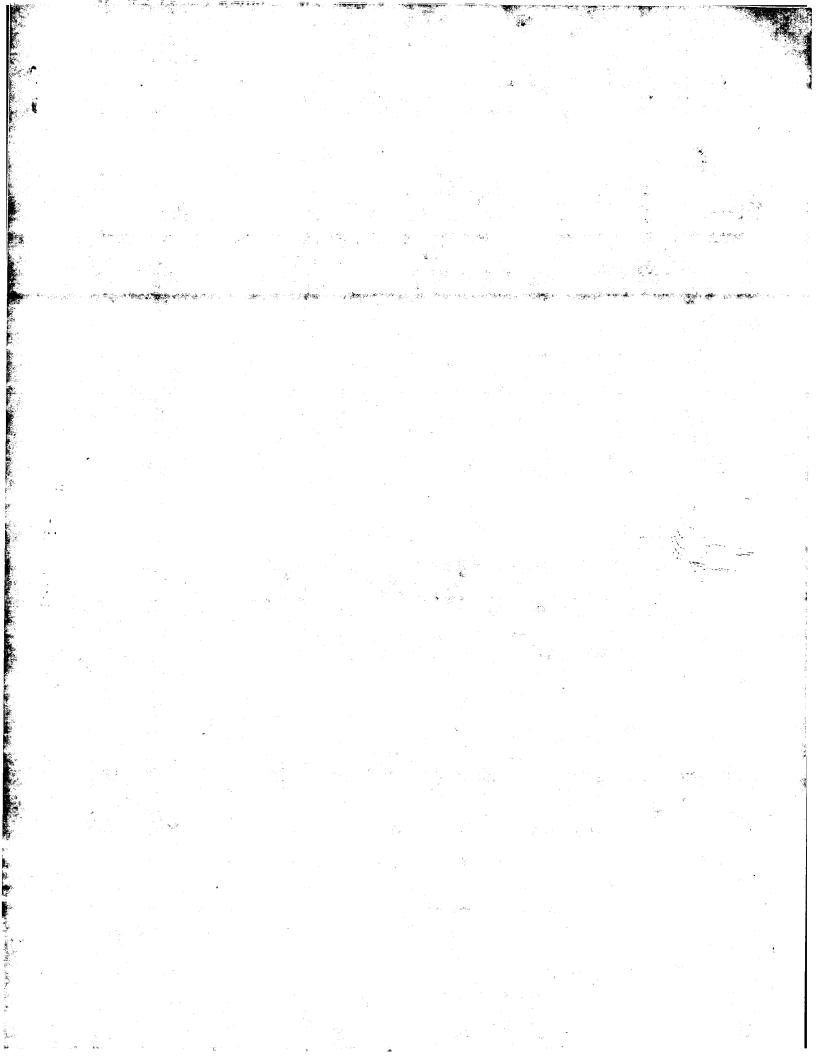
of Cercopithecus monkeys."; ogenetics 46:363-634(1997).

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RESULT 14
O19170
ID 01917
AC 01917
DT 01-JI
DT 01-JI
DT 01-JI
DT 01-JI
DT 01-JI
OC Euka
OC Euka
OC Mamm
OC Cerc
OX NCB:
RN [1]
RP SEQ!
RO STR
RX MWE
RA Ban
RY 100
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01930
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AC 01930
DT 01-JA
DT 01-JA
DT 01-DE
GN HLA-D
OS GOT11
OC EUKA-
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Best Local Similarity
Matches 5; Conserv
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Best Local :
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01-JAN-1998 (TrEMBLI
01-JAN-1998 (TrEMBLI
01-JUN-2001 (TrEMBLI
Mhc-DQA1 (Fragment).
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01-JAN-1998
01-DEC-2001
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NON_TER
SEQUENCE
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SEQUENCE OF 6-27 FROM N.A.
STRAIN-WILMA; TISSUE-BLOOD;
MEDLINE-93339935; PubMed-8340229;
                                                         Gorilla gorilla (gorilla).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                      01-JAN-1998 (TrEMBLrel. 05, Created)
01-JAN-1998 (TrEMBLrel. 05, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation updat,
MHC class II DQ alpha (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                    Mwenda J.M., Takenaka O., Kim H.-S., Yamamoto T., Katsumata Y., Bambra C.S., Uchihi R., Shotake T.; "Nucleotide sequences of the major histocompatibility complex DQA1 locus of Cercopithecus monkeys.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-SYL119;
MEDLINE-97364699; PubMed-9218545;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cercopithecus mitis.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele Eukaryota; Butheria; Primates; Catarrhini; Cercopithecidae; Cercopithecus.
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                                                NCBI_TaxID=9593;
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62 AA;
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7374 MW;
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Pred. No. 53;
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Pred. No.
                                                         Craniata; Vertebrața;
Catarrhini; Hominidae;
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Matches 5
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Submitted (OCT-1997) to the EMBL/GenBank/DDBJ databases.
EMBL; AF031277; AABB7448.1; -.
InterPro; IPR001003; MHC_II_alpha.
Pfam; PF00993; MHC_II_alpha; 1.
                                                                                             NON_TER
                                                                                                                                                                       SEQUENCE FROM N.A.
STRAIN-WILMA; TISSUE-BLOOD;
                                                                                                                                                                                                 Bontrop R.E.; "Mhc-DRB and -DQA1 nucleotide sequences of three lowland gorillas. Implications for the evolution of primate Mhc class II haplotypes."; Hum. Immunol. 36:205-218(1993).
                                                                                     SEQUENCE
                                                                                                                                                                                                                                                 Kenter M., Otting N., de Weers M., Anholts J.,
38 GGFDP
                    1 GGFDP 5
                                          Similarity 100. 5; Conservative
 42
                                                                                    62 AA;
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                                                                                   7238
                                                   100.0%;
                                                                                   MW;
                                          0;
                                       Score 31; DB;
Pred. No. 53;
0; Mismatches
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Search completed: March 17, 2003, 12:10:18 Job time : 26 secs



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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                                                                                                          Score
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Gapop 10.0 , Gapext 0.5
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1: /cgn2_6/ptodata/2/paa/
2: /cgn2_6/ptodata/2/paa/
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/cgn2_6/ptodata/2/paa/US101_COMB pep:*
/cgn2_6/ptodata/2/paa/US102_COMB pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cgn2_6/ptodata/2/paa/US088_COMB.pep:*
/cgn2_6/ptodata/2/paa/US089_COMB.pep:*
/cgn2_6/ptodata/2/paa/US090_COMB.pep:*
                                                                                                                                                          Length DB ID
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/cgn2_6/ptodata/2/paa/US087_COMB.pep:*
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/ptodata/2/paa/US093_COMB.pep:
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PCT-US01-19110-3191

2 US-09-880-748-3191

1 US-09-708-427-48538

7 US-60-181-425-26

2 US-09-855-754-9

4 US-09-069-726-181
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Sequence 3191, Ap
Sequence 3191, Ap
Sequence 48538, Appl
Sequence 26, Appl
Sequence 9, Appli
Sequence 181, App
                                                                                                                                                 Description
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ALIGNMENTS

RESULT 1
PCT-US01-19110-3191

Sequence 3191, Application PC/TUS0119110

GENERAL INFORMATION:
APPLICANY: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523PCT
CURRENT FILING DATE: 2001-06-15
PRIOR PFLICATION NUMBER: FC7/US01/19110
CURRENT FILING DATE: 2001-06-15
PRIOR PFLICATION NUMBER: 60/212,210
PRIOR PFLICATION NUMBER: 60/240,816
PRIOR PFLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 3191
TYPE: PRT
ORGANIAM: Homo sapiens
PCT-US01-19110-3191
Query Match
Best Local Similarity 100.0%; Score 31; DB 1; Length 11;

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; FEATURE:
; NAME/KEY: misc_feature
; LOCARION: 1.38
; OTHER INFORMATION: xaa is any amino acid
; NAME/KEY: misc_feature
LOCATION: 1.38
; OTHER INFORMATION: Ceres Seq. ID 1855288
US-09-708-427-48538
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CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-26
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
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                                                     Query Match
Best Local
                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2000-11-0
NUMBER OF SEQ ID NOS: 85364
SOFTWARE: PATENTIN VERSION 3.1
SEQ ID NO 48538
LENGTH: 38
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 48538, Application US/09708427 GENERAL INFORMATION: ALEXANDROV et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
FILE REFERENCE: PF523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/708,427
CURRENT FILING DATE: 2000-11-09
                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES TITLE OF INVENTION: THEREBY FILE REFERENCE: 2750-1243P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3191, Application US/09880748
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                                                                                                                                                                                                                                     ORGANISM: Zea mays subsp. mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
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                                 Local Similarity
wes 5; Conserv
1 GGFDP 5
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                             100.0%; silarity 100.0%; sometime 0;
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100.0%; F
ative 0;
                         Score 31; DB 21;
Pred. No. 1.4e+02;
0; Mismatches 0;
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Pred. No.
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US-09-069-726-181

Sequence 181, Application US/09069726
GENERAL INFORMATION:
TITLE OF INVENTION: COMPOSITIONS IS:
TITLE OF INVENTION: SKIN CELLS AND
NUMBER OF SEQUENCES: 197
                                                                                                                                                                                                                                                                                                                                                    ; SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 9

; LENGTH: 56

; TYPE: PRT

; ORGANISM: Bordetella bronchiseptica

US-09-855-754-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: HUMAN
US-60-181-425-26
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Best Local S
Matches 5
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APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYMPETIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERFACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BROWCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 26
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-855-754-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 03495-0206-00000
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CURRENT FILING DATE: 2000-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING H
TITLE OF INVENTION: USES THEREOF
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TYPE: PRT
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5; Conserv
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                                                                                                                                                                                                                                                                      100.0%; Score 31; DB 22; Llarity 100.0%; Pred. No. 2.1e+02; Conservative 0; Mismatches 0;
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             COMPOSITIONS ISOLATED FROM
SKIN CELLS AND METHODS FOR THEIR USE
197
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Pred. No. 1.8e+02;
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Query Match
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"herhes 5; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                Sequence 181, Application US/09312283A
                                                                                                                                                                                        FILE REFERENCE: 11000.1011c2
CURRENT APPLICATION NUMBER: US/09/312,283A
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 415
SOFTWARD: 7-1-1-1
                                                                                                                                                                                                                                                          APPLICANT: Murison, James G.
APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated from Skin Cells
TITLE OF INVENTION: and Methods for Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                         ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 29-APR-19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
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APPLICATION NUMBER:
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OPERATING SYSTEM:
                                              Local Similarity
les 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Seattle
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 60 amino acids
TYPE: amino acid
                                                                                                                                                                                   FastSEQ
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Sleeman, Matthew
Onrust, Rene
                                                                                                                                                                                                                                                                                                                                                                  Watson, James D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2E: Law Offices of Ann W. Speckman
2601 Elliott Avenue, Suite 4185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                              Conservative
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29-APR-1998
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                                        Score 31; DB 17; I
Pred. No. 2.2e+02;
o. wismatches 0;
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Pred. No. 2.2e+02;
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                                                                      Length 60;
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RESULT 10
US-09-312-283B-320
J Sequence 320, Application US/09312283B
GENERAL INFORMATION:
APPLICANT: Watson, James D.
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US-09-312-283A-320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/312,283A CURRENT FILING DATE: 1999-05-14 NUMBER OF SEQ ID NOS: 415-05-14 SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 320
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Best Local
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                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 11000.1011c2
CURRENT APPLICATION NUMBER: US/09/312,283B
CURRENT FILING DATE: 1999-05-14
                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated from Skin Cells
TITLE OF INVENTION: and Methods for Their Use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 425
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Sleeman, Matthew
Onrust, Rene
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Strachan, Lorna
Sleeman, Matthew
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Kumble, Krishanand D.
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Pred. No. 2
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Pred. No. 2.2e+02;
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2.2e+02;
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Length 60;

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US-09-312-283A-181

APPLICANT:

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US-09-312-283A-181

Query Match Best Local S

SOFTWARE: F SEQ ID NO 181

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Gaps

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LENGTH: 60 TYPE: PRT

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TITLE OF INVENTION: Compositions Isolated from Skin Cells
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 11000.1011c2
CURRENT APPLICATION NUMBER: US/09/312,283B
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 425
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 320
LENGTH: 60
TYPE: PRT
ORGANISM: Mouse
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Best Local Similarity
"---hes 5; Conserve
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APPLICANT:
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SEQ ID NO 181
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                           TITLE OF INVENTION:
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CURRENT APPLICATION NUMBER: US/09/312,283C
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TYPE: PRT
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TITLE OF INVENTION: Compositions Isolated from Skin Cells
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 11000.1011c2
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                                                                                               Sleeman, Matthew
                                                         Kumble,
                                                                   Murison,
                                                                                Onrust, Rene
                                                                                                           Strachan, Lorna
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Sleeman, Matthew
Onrust, Rene
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Kumble, Krishanand D.
                                                                                                                                                    Application US/09312283C
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                 11000.1011c2
                    Krishanand D.
Compositions Isolated from Skin Cells and Methods for Their Use
                                                                   James G.
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Pred. No. 2.2e+02;
); Mismatches 0;
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Pred. No. 2.2e+02;
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; ORGANISM: Mouse US-09-866-050A-320
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; ORGANISM: Mouse
US-09-312-283C-320
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 181
LENGTH: 60
TYPE: PRT
                                                           NUMBER OF SEQ ID NOS: 725
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 320
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Best Local Similarity
Matches 5; Conserv
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APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions Isolated From
TITLE OF INVENTION: and Methods for Their Use
FILE REFERENCE: 1100.1011c4U
CHERDENT ADDITATION VICTORIA
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SEQ ID NO 320
                                TYPE: PRT
                                                                                                     CURRENT APPLICATION NUMBER: US/09/866,050A
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APPLICANT: Kumble, Krishanand D.
TITLE OF INVENTION: Compositions
TITLE OF INVENTION: and Methods
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Sleeman, Matthew
Onrust, Rene
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Sleeman, Matthew
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Pred. No. 2.2e+02;
); Mismatches 0;
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Pred. No.
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hes 0;
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RESULT 15

(Sequence 134706, Application US/09791537)

(Sequence 134706, Application US/09791537)

(GENERAL INFORMATION:

(APPLICANT: Bionomix, Inc.

APPLICANT: Debe, Derek

APPLICANT: Debe, Derek

TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILY MEMBE

TITLE OF INVENTION: METHODS OF USE THEREOF

FILE REFERENCE: 261/210

(CURRENT APPLICATION NUMBER: US/09/791,537)

CURRENT FILING DATE: 2001-02-22

NUMBER OF SEQ ID NOS: 153055

SOFTWARE: Patentin version 3.0

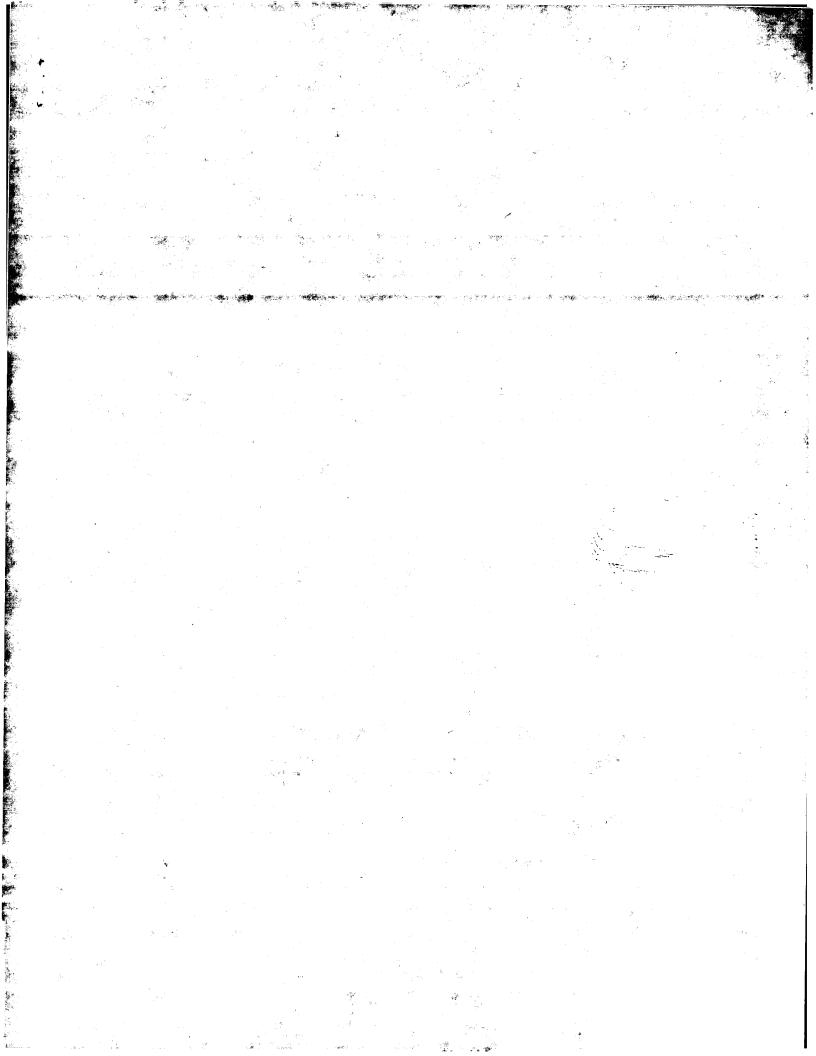
SEQ ID NO 134706

LENGTH: 70

TYPE: PAT

ORGANISM: Homo sapiens

US-09-791-537-134706
Search completed: March 17, 2003, 12:19:35 Job time: 153 secs
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51 GGFDP 55
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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                                              Score
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Match
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1: /cgn2_6/ptodata/1/paa/PCT_NEW_COMB.pep:*

2: /cgn2_6/ptodata/1/paa/US06_NEW_COMB.pep:*

3: /cgn2_6/ptodata/1/paa/US07_NEW_COMB.pep:*

4: /cgn2_6/ptodata/1/paa/US08_NEW_COMB.pep:*

5: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*

6: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*

7: /cgn2_6/ptodata/1/paa/US09_NEW_COMB.pep:*
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      BLOSUM62 Gapop 10.0 , Gapext 0.5
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      PCT-US02-36496-3191
US-09-852-754B-91
US-09-852-754B-91
US-09-852-754B-91
PCT-US03-01605-293
US-10-092-411A-5117
US-09-950-084-5791
PCT-US02-22011-5
US-10-269-805-33
US-10-269-805-33
US-10-269-805-33
US-10-269-805-33
US-10-269-805-33
US-10-269-805-3450
US-09-724-6766-74450
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US-09-724-6766-74450
US-09-978-825-16148
US-10-057-498-16148
US-09-724-6766-74460
US-09-724-6766-74460
US-09-724-6766-74454
US-10-028-248A-12
US-10-028-248A-12
US-10-028-248A-55
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9, Appli
293, Appli
5791, Ap
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5791, Appli
33, Appli
34450, A
74456, A
16148, A
16148, A
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74450, A
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Sequence 89, Appl Sequence 88, Appl Sequence 56, Appl Sequence 57, Appl Sequence 58, Appl Sequence 57, Appl Sequence 57, Appl Sequence 58, Appl Sequence 10, Appl Sequence 10, Appl Sequence 2094, Appl Sequence 2094, Appl Sequence 74453, A Sequence 74453, A Sequence 74459, A Sequence 74459, A Sequence 74459, A Sequence 74459, A Sequence 74459, A Sequence 74459, A

ALIGNMENTS

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US-09-855-754B-9
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                                                                                                                                                             APPLICANT:
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                                                                           APPLICANT:
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                                     TITLE OF INVENTION:
                                                                                            APPLICANT:
                                                                                                           APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                equence 9, Application US/09855754B ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: POLYPÉPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/:
PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 3247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
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TYPE: PRT
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APPLICATION NUMBER: 60/
FILING DATE: 2000-10-17
APPLICATION NUMBER: PCT/US03/01605
                                                                                                                                                                                        INCYTE GENOMICS, INC.

JONES, Anissa L.; DAHL, Christopher R.;
GIETZEN, Darryl; CHINN, Joyce;
DUFOUR, Gerard E.; JACKSON, Jennifer L.
                               GERSTIN Jr., Edward H.; PERALTA, Careyna H.;
LEWIS, Samantha A.; CHEN, Alice;
MARWAHA, Rakesh; LAN, Ruth Y.;
URASHKA, Michael E.; KRISTNAM, Sreenivasa R.;
KOLLURU, Vijaykumar; PANESAR, Iqbal S.
                                                                                                                                 YAP, Pierre E.; AMSHEI, DAM, Tam C.; LIU, Tommy
                                                                                                                                                                            YU, Jimmy Y.
                                                                                                                                                                                                                                                                                    Application PC/TUS0301605
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                                                                                                                                                        Pierre E.; AMSHEY, Stefan R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 31; DI
100.0%; Pred. No. 50;
tive 0; Mismatches
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Pred. No.
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; IYPB: PRT
; ORGANISM: Staphylococcus epidermidis
US-10-092-411A-5117
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; Sequence 5117, Appli.
; GENERAL INFORMATION:
; APPLICANT: Lynn Dow
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Matches
                                                                                                                                                                                                                                                Sequence 5791, Appri
GENERAL INFORMATION:
APPLICANT: George H. Shimer, Jr.
APPLICANT: George H. Miller
APPLICANT: Roberta S. Hare
APPLICANT: Roberta S. Hare
APPLICANT: Karen J. Shaw
TITLE OF INVENTION: Staphylococcus aureus Related Compositions and Methods
FILE REFERENCE: 1034/1C953US2
CURRENT APPLICATION NUMBER: US/09/950,084
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: US 09/417,811
PRIOR APPLICATION NUMBER: US 09/417,811
PRIOR FILING DATE: 1999-10-14
PRIOR APPLICATION NUMBER: US 09/353,718
PRIOR APPLICATION NUMBER: US 09/353,718
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SOFTWARE: PERL Program
SEQ ID NO 293
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Matches 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/10/092,411A CURRENT FILING DATE: 2002-03-07 PRIOR APPLICATION NUMBER: US 09/134,001 PRIOR FILING DATE: 1998-08-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Lynn Doucette-Stamm et al TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCC TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS FILE REFERENCE: 032796-101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 5676
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PRIOR APPLICATION NUMBER: US 60/349,946
PRIOR FILING DATE: 2002-01-17
PRIOR APPLICATION NUMBER: US 60/349,413
PRIOR FILING DATE: 2002-01-17
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TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: misc_feature
OTHER INFORMATION: Incyte
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                                                                                                                                                                                                                                                                                                                                                                          72 GGFDP 76
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tes 5; Conserv
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 122
SOFTWARE: Patentin version 3.1
SEQ ID NO 5
                                                                                                                                                  Sequence 5, Application US/10194975 GENERAL INFORMATION:
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NUMBER OF SEQ ID NOS:
SEQ ID NO 5791
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PRIOR APPLICATION NUMBER: US 60/305,111
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 122
                                                               APPLICANT: Foote, Jefferson
TITLE OF INVENTION: Super Humanized Antibodies
FILE REFERENCE: 501231.01
CURRENT APPLICATION NUMBER: US/10/194,975
CURRENT FILING DATE: 2002-10-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: PCT/US02/22011 CURRENT FILING DATE: 2002-07-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Foote, Jefferson TITLE OF INVENTION: Super H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1998-03-06
PRIOR APPLICATION NUMBER: US 09/036,338
PRIOR FILING DATE: 1998-03-06
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TYPE: PRT
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49 GGFDP 53
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 09/266,542 FILING DATE: 1999-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 09/266,555
FILING DATE: 1999-03-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 09/266,557
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5; Conserv
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Pred. No.
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; LENGTH: 98
; TYPE: PRT
; ORGANISM: HO
US-10-194-975-5
                                         Query Match
Best Local Similarity
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                                                                                                               ; TYPE: PRT; ORGANISM: Homo sapiens US-10-269-805-33
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                                                                                                                                                                     NUMBER OF SEQ ID NOS: 76
SOFTWARE: PatentIn version 3.1
SEQ ID NO 33
                                                                                                                                                                                                                                                                                                                  Sequence 33, Application US/10269805 GENERAL INFORMATION:
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SEQ ID NO 33
LENGTH: 122
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                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/10/269,805
CURRENT FILING DATE: 2002-10-10
PRIOR APPLICATION NUMBER: US 60/328,604
PRIOR FILING DATE: 2001-10-11
                                                                                                                                                                                                                                                                          APPLICANT: OLINER, JONATHAN D.
TITLE OF INVENTION: ANGIOPOIETIN-2 SPECIFIC BINDING AGENTS
FILE REFERENCE: A-722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US (PRIOR FILING DATE: 2001-10-11 NUMBER OF SEQ ID NOS: 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: FILE REFERENCE: A-72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: PCT/US02/32613 CURRENT FILING DATE: 2002-10-11
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49
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Pred. No. 99;
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Pred. No. 82;
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RESULT 11

US-09-724-676-74450

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; APPLICANT: Compugen LTD
; TITLE OF INVENTION: Variants of alternative splicing
; FILE REFERNCE: 129181.4 Compugen
; CURRENT APPLICATION NUMBER: US/09/724,676
; CURRENT FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 97222
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 74450
; LENGTH: 131
; TYPE: PAT
; ORGANISM: Homo sapiens
US-09-724-676-74450
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US-09-724-676-74456
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US-09-724-676A-74450
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TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
SEQ ID NO 74456
FENOMEL 140
                                                                                                                                                                                                                                                                                            Sequence 74456, Application US/09724676 GENERAL INFORMATION:
                                                               Query Match
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TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
CURRENT APPLICATION NUMBER: US/09/724,676A
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: PatentIn version 3.2
SEQ ID NO 74450
LENGTH: 131
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Pred. No. 1.1e+02;
; Mismatches 0;
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Search completed: March 17, 2003, 12:20:52 Job time: 24 secs
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LENGTH: 164

TYPE: PRT

ORGANISM: Propioni acnes
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CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
SEQ ID NO 74456
LENGTH: 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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CURRENT FILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
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                                                                                                                                                                                                                                                                        NPPLICANT: Douglass, John
FITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acne
FILE REFERENCE: 210121.514C1
                                                                                                                                                                                                                                                                                                                                          APPLICANT
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Barth, Brenda
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Jones, Robert
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Wang, Siqing
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Bhatia, Ajay
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Pred. No. 1.3e+02;
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Pred. No. 1.1e+02;
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GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen i.td.
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on:
March 17, 2003, 12:05:19; Search time 31.3333 Seconds (without alignments) 21.263 Million cell updates/sec
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Scoring table:
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Perfect score:
             11 99 Egp .5
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BLOSUM62

Gapop 10.0 , Gapext 0.5

908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters:

908470

Minimum DB : Maximum DB : seq length: 0 length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database

A_Geneseq_101002:*

1: /SIDS1/gcgdata/scgdata/ | SIDSI/gcgdata/geneseq/geneseqp-embl/AA1980 DAT: *
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| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1995 DAT: *
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1995 DAT: *
| SIDSI/gcgdata/geneseq/geneseqp-embl/AA1997 DAT: *
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Pred. No. is the number of results predicted by chance to h score greater than or equal to the score of the result bein and is derived by analysis of the total score distribution. being pr printed,

SUMMARIES

Result No. 1 1 2	Score 31 31	Match 100.0	Query Match Length DB 100.0 10 23 100.0 15 23	;	ID AAE17142 AAE17145	Description Bordetella pertuss
21	31 31	100.0	15	ຜິເລ	AAE17142 AAE17145	Bordetella Bordetella
ω	31	100.0	15	23	AAE17163	Monoclonal
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υ	31	100.0	15 2	ິລ	AAE17166	Monoclonal Ab deri
6	31	100.0	15 2	23	AAE17167	Monoclonal Ab deri
7	31	100.0	20 2	ິພ	AAE17144.	
8	31	100.0	26 2	ຮັ	ABB50677	Human secreted pro
9	31	100.0	31 2	ພ	AAE17173	Maltose binding pr
10	31	100.0	36 2	ü	AAE17141	Bordetella pertuss
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AAU87608	AAG92718	AAU58992	AA003167	ABG16939	-	ABP34634	AAR38612	28	AAU45938	ABP33149		AAE16190	AAE17149	AAE17147	AAE17152	AAE16191	AAE16189	AAE16188	AAE17151	AAE17150	AAE16192	AAE16186	AAE16187	AAE17159	AAE17158	AAE17157	AAE17156	AAE17155	15	AAE17153	AAE17171	AAE17174	AAE17172	AAE17170
Novel central nerv	C glutamicum prote	Propionibacterium	2	Novel human diagno	Human polypeptide		KOL heavy chain.	Propionibacterium	н	\mathbf{H}	rdetella	septica	pertus	pertus	rdetella pertu	bronchiseptic		septica	pertus	ordetella pertu	•		onchiseptica	monoclonal	monoclonal	0 monoclonal	8 monoclonal	monoclonal	monoclonal	noclonal	binding	binding		

ALIGNMENTS

AAE17142 standard; peptide; 10 B

AAE17142;

18-APR-2002 (first entry)

Bordetella pertussis pertactin (Prn1) related peptide #1.

Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy; immune response.

Unidnetified.

WO200200695-A2

03-JAN-2002.

29-JUN-2001; 2001WO-NL00493

30-JUN-2000; 2000EP-0202309.

(NEWE-) NEDERLANDEN MIN WELZIJN.

Mooi FR;

WPI; 2002-139897/18.

RESULT 1
ARABITATA
ID ARABI
AC ARBI
AC New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio

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RESULT 2
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ID AAE17145
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Best Local
                                                                  The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides derived from Bordetella pertussis pertactin, useful as
a vaccine against infections caused by Bordetella strains, and other
infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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Sequence

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AAE17165 ΧIJ

AAE17165 standard; peptide;

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                                                                                                                  pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polic and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or classed by Bordetella pertussis or Bordetella parapertussis. The present caused by Bordetella pertussis or Bordetella parapertussis. The present caused by Bordetella pertussis or Bordetella parapertussis. The present caused by Bordetella pertussis or Bordetella parapertussis.
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a vaccine against infections caused by Bordetella strains, and oth
infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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RESULT 5
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                                                                               Pertactin; prn1; antibacterial; immunostimulant; antimicrobial; vaccine; diphtheria; tetanus; polio; Haemophilus influenza b infection; therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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                                                                                                            30-JUN-2000; 2000EP-0202309
                                                                                                                                    29-JUN-2001; 2001WO-NL00493
                                                                                                                                                              03-JAN-2002
                                                                                                                                                                                       WO200200695-A2
                                                                                                                                                                                                               Unidentified
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New polypeptides derived from a vaccine against infections (

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WPI; 2002-139897/18

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RESULT 7
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Best Local Similarity
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           The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including disphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis of Bordetella parapertussis. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
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                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 7; 52pp; English
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Best Local :
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Florence C,
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29-MAR-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-FEB-2001; 2001WO-US05614
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Endress GA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           er R, Lafleur DW, Moore PA, Olsen HS, Rose
Soppet DR, Young PE, Shi Y, Florence KA, 1
, Hu J, Li Y, Kyaw H, Fischer CL, Ferrie
, Indress GA, Dillon PJ, Carter KC, Brewer LA,
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2000US-193170P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immunosuppressive; antiinflammatory; immunostimulant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Y, Olsen HS, NU.
Y, Florence KA, Wei 1
Y, Ferrie AM,
TAA, YU
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ABB50301 to ABB51287 and ABA83194 to ABA83441 represent human secreted proteins (I) and polynucleotide (II) sequences. (I) and (II) have variance activities based on the tissues and cells the genes are expressed in. Example of these activities include: immunomodulatory; antisclerotic; dermatological; immunosuppressive; antiinflammatory; immunostimulant; anti-HIV; cytostatic; cardiant; anti-anglogenic; ophthalmological; neuroprotective; nootropic; anticonvulsant; antialrheimers; vascular; antiparkinsonian; antimicrobial; and vulnerary. (I) and (II) can be used in the supersection, diagnosis and treatment of immune disorders (e.g. multiple sclerosis, systemic lupus erythematosus and human immunodeficiency vi:

be used in the

Nucleic acid preventing, disease and

acids encoding 207 human secreted polypeptides, useful foring, diagnosing and/or treating, e.g. cancers, Parkinson's and diabetic retinopathy -

WPI; 2001-625724/72.

Zeng

Greene JM;

Disclosure;

Page 105;

1533pp; English

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Matches
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Best Local
                          pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b! The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBP)-pertactin region I fusion protein used in the exemplification of the invention.
                                                                                                                                                                                                                                                    New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chimeric - Chimeric -
                                                                                                                                                                                                                                                                                                                         WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                retinopathy), neurological disorders (e.g. Huntington's chorea, Alzheimer's disease and Parkinson's disease), infectious diseases and/or for promoting wound healing, regeneration and/or chemotaxis. ABA83185 to ABA83193 and ABB50300 represent sequences used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chaga's cardiomyopathy and coronary arteriosclerosis), angiogenic disorders (e.g. corneal graft neovascularisation and diabetic
                                                                                                                                                                                       The invention relates to polypeptides derived from Bordetella pertussis
                                                                                                                                                                                                                           Example 1;
                                                                                                                                                                                                                                                                                                                                                         M001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200200695-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diphtheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pertactin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Maltose binding protein-pertactin region 1 fusion protein, MBP-Prn4.
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                                                                                                                                                                                                                                                                                                                                                                                      (NEWE-) NEDERLANDEN MIN WELZIJN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HIV) infections), hyperproliferative disorders (e.g. cancers and Gaucher's disease), cardiovascular diseases (e.g. Scimitar syndrom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18
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5; Conserv
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Unidentified.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tetanus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                   2001WO-NL00493
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                                                                                                                                                                                                                       4b; 52pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            maltose binding protein; MBP; fusion protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antibacterial; immunostimulant; antimicrobial;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pertussis.
                                                                                                                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Haemophilus influenza
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Pred. No.
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40;
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Query Match

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(first entry)

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Sequence

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RESULT 11
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AAE17141
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                                                                                                                                                                                                                                               The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present
                          AAE17170;
                                                 AAE17170
                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                       sequence
                                                                                                                                                                                                                                                                                                                                                                             Claim 3; Page 4; 52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bordetella pertussis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pertactin; prn1; anti
diphtheria; tetanus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-APR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOO1 FR;
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5; Conser
                                                  standard;
                                                                                                                                                                                                                                       is B. pertussis
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nus; pollo; Haemophilus influenza b infection; therapy;
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Pred. No.
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Mismatches
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RESULT 12
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Chimeric
                                                                         Pertactin; prn1; antipaccediphtheria; tetanus; polio; Haemo
 03-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prol). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or caused by Bordetella particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBP)-pertactin region 1 fusion protein used in the exemplification of the invention.
                          WO200200695-A2
                                                                                                                                        Maltose binding protein-pertactin region 1 fusion protein,
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                                                                                                                                                                                                                             AAE17172
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptides derived from Bordetella pertussis pertactin, useful a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Fig 4b;
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                                                                                                                                                                                                                            standard; Protein; 36
                                                               Bordetella pertussis.
                                                    Unidentified.
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Unidentified.
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                                                                                antibacterial; immunostimulant; antimicrobial; vaccine; nus; polio; Haemophilus influenza b infection; therapy; maltose binding protein; MBP; fusion protein.
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Haemophilus influenza b infection;
ading protein; MBP; fusion protein.
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                                                                                                            The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. Pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or caused by Bordetella pertussis or Bordetella parapertussis. The present sequence is maltose binding protein (MBP)-pertactin region 1 fusion protein used in the exemplification of the invention.
                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                               New polypeptides derived from Bordetella pertussis pertactin, a vaccine against infections caused by Bordetella strains, an infectious diseases of mammals, e.g. diphtheria, tetanus, or
                                                                                                                                                                                                                                                                                                     Example 1; Fig 4b; 52pp;
                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2002-139897/18
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1 GGFGP 5
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ilarity 100.0%;
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                        Gaps
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AAE17174 standard; Protein; 20 GGFGP 24 36

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RESULT 13 AAE17174 Maltose binding protein-pertactin region 1 fusion protein, 18-APR-2002 (first entry)

Pertactin; prnl; antipaccediphtheria; tetanus; polio; Haemo antibacterial; immunostimulant; antimicrobial; vaccine; nus; polio; Haemophilus influenza b infection; therapy; maltose binding protein; MBP; fusion protein.

MBP-Prn5

Chimeric -Chimeric -Bordetella pertussis Unidentified.

WO200200695-A2

03-JAN-2002.

29-JUN-2001; 2001WO-NL00493

30-JUN-2000; 2000EP-0202309

(NEWE-) NEDERLANDEN MIN WELZIJN

WPI; 2002-139897/18

New polypeptides derived from Bordetella pertussis pertactin, a vaccine against infections caused by Bordetella strains, and useful d other as

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RESULT 14
AAE17171
ID AAE1
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The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis, B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polio and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or diagnostic purposes, particularly for treating or preventing infections caused by Bordetella pertussis or Bordetella parapertussis. The present
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Chimeric
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                                                                                                                                                                                                                                                                                               New polypeptides derived from Bordetella pertussis pertactin, a vaccine against infections caused by Bordetella strains, and infectious diseases of mammals, e.g. diphtheria, tetanus, or po
                                                                                                                                                                                                                                                                                                                                                                                                               WPI;
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; tetanus; polio; Haemophilus influenza b infection; therapy;
ponse; maltose binding protein; MBP; fusion protein.
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                                                                                                                                                                                                                                                           4b; 52pp;
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Pred. No.
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                                            The invention relates to polypeptides derived from Bordetella pertussis pertactin (Prn1). The polypeptide is useful in the preparation of vaccines against B. pertussis B. parapertussis, B. bronchiseptica and other infectious diseases of mammals including diphtheria, tetanus, polic and infections caused by Haemophilus influenza b. The polypeptide is especially useful for eliciting an immune response against Bordetella sp. Antibodies against the polypeptide may be used for pharmaceutical and/or classed by Bordetella pertussis or Bordetella pertussis or Bordetella parapertussis. The present sequence is a monoclonal antibody specific to region 1 of pertactin used for epitope mapping and vaccination.
                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides derived from Bordetella pertussis pertactin, useful as a vaccine against infections caused by Bordetella strains, and other infectious diseases of mammals, e.g. diphtheria, tetanus, or polio -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2002-139897/18
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nus; polio; Haemophilus influenza b infection;
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Search completed: March 17, 2003, 12:08:56 Job time: 32.3333 secs 1|||| 26 GGFGP 30

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Minimum
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1: /cgn2_6/ptodata/2,

2: /cgn2_6/ptodata/2,

3: /cgn2_6/ptodata/2,

4: /cgn2_6/ptodata/2,

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/cgn2_6/ptodata/2/1aa/B_COMB.pep:*
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US-09-323-872A-13
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US-09-362-831-3
US-09-363-845-2
US-09-236-645-2
US-09-236-645-2
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US-08-460-269C-4
US-08-460-269C-4
US-08-460-269C-4
US-08-460-269C-6
US-08-460-269C-6
US-08-460-269C-7
US-08-460-269C-7
US-08-460-269C-7
US-08-460-269C-7
US-08-460-269C-7
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US-08-459-444-7
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                                                      ; MOLECULE TYPE:
; HYPOTHETICAL: N
; ANTI-SENSE: NO
US-08-462-949-29
                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-27-7700
TELEPAX: 201-75-6237
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 129 amino acids
TYPE: amino acid
STRANDEDNESS: Single
Query Match
Best Local Similarity
Matches 5; Conserv
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TOPOLOGY:

linear .. protein

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100.0%;

Score 31; Pred No. red. No. 63; Mismatches

DB 1; Length 129; 0

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APPLICATION APPLICATION TITLE OF INVENTION TOTAL CORRESPONDENCE ADD ADDRESSEE: Darb STREET: 805 Thi CITY: New York STATE: New York STATE: New York COUNTRY: U.S.A. ZIP: 10022 COMPUTER READABLE MEDIUM TYPE: F1 COMPUTER: IBM P OPERATING SYSTEM SOFTWARE: PALCATION APPLICATION NUMB FILING DATE: CLASSIFICATION NUMB FILING DATE: PRIOR APPLICATION APPL	28 28 90.3 1 29 28 90.3 1 30 28 90.3 1 31 28 90.3 2 34 28 90.3 2 35 28 90.3 2 36 28 90.3 2 37 28 90.3 2 38 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 28 90.3 2 39 30 30 30 30 30 30 30 30 30 30 30 30 30
APPLICANT: RASHING TITLE OF INVENTIC IN THE STREET: 805 Th CITY: New YORK STATE: NEW TYPE: F COUNTRY: U.S.A SIP IN TYPE: F CONFINITE IN TYPE: F CONFINITE IN TYPE: F CONFINITE IN TYPE: F CONFINITE IN TYPE: F ALE SOFTWARE: PALE SOFTWARE: PALE SOFTWARE: PALE TILING DATE: CLASSIFICATION NUM FILLING DATE: CLASSIFICATION NUM FILLING DATE: PRIOR APPLICATION NUM FILLING DATE: ANTORNEY/AGENT IN NAME: ROSISTRATION NUM REFERENCE/DOCKE	0
APPLICANT RASMUSSEN, Beth AN TITLE OF INVENTION: Component TITLE OF INVENTION: Component TITLE OF INVENTION: Component TITLE OF INVENTION: Component TITLE OF INVENTION: Bactoroid NUMBER OF SEQUENCES: 39 CORRESPONDENCE ADDRESS: ADDRESSE: Darby & D	90.3 90.3 90.3 90.3 90.3 90.3 90.3 90.3
Rasmussen, Beth Ann Rasmussen, Cloning and Id FENTION: Component Sign FENTION: Component Sign FENTION: Bactoroides Fr OQUENCES: 39 VCE ADDRESS: Darby & Darby P.C. 305 Third Avenue V York U.S.A. 22 DABLE FORM: E: Floppy disk IBM PC Compatible SYSTEM: PC-DOS/MS-DOS Patentin Release #1.0, ICATION DATA: N NUMBER: US/08/462,94 'E: INT INFORMATION: NT INFORMATION: SMT INFORMATION 1086 CON NUMBER: 33,448 CON NUMBER: 33,446/1B	114 116 118 119 22 23 22 23 29 29 29 29 29 32 32 32 32 32 32 33 32
, Beth Ann Cloning and Ide Component Signa Bactoroides Fra 3 3 Darby P.C. Darby P.C. Avenue M: y disk ompatible ompatible PC-DOS/MS-DOS Release #1.0, ATA: US/08/462,949 Seph R. 1 33,448 MBER: 0646/180	4 1 US-08 6 4 US-09 6 4 US-09 6 4 US-09 7 US-08 7 US-08 7 US-08 7 US-08 7 US-08 7 US-08
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US-08-023-764B-29
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GENERAL INFORMATION:
        APPLICANT: Coschigano, Peter TITLE OF INVENTION: Compositions and Methods FILE REFERENCE: OHU-03640
CURRENT APPLICATION NUMBER: US/09/323,872A
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 09/072,433
PRIOR FILING DATE: 1998-05-04
NUMBER OF SEQ ID NOS: 58
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Best Local
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GENERAL INFORMATION:
   SOFTWARE:
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NAME: Barnhard, Elizabeth M.
REGISTRATION NUMBER: 31,088
REFERENCE/DOCKET NUMBER: 31,65
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201)831-3246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE:
HYPOTHETICAL: N
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Release #1.0, ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/023,764B
FILING DATE: 26-FEB-1993
CLASSIFICATION: 435
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION:
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PatentIn version 3.0
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One Cyanamid Plaza
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VENVION: Cloning and Identification of a Two
VENTION: Component Signal Transducing Regulatory System
VENTION: Bacteroides Fragilis
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Pred. No. 63;
0; Mismatches
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RESULT 5
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Best Local Similarity
"-+ ohes 5; Conserv?
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; SEQ ID NO 3
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Infectious Laryngotracheitis Virus
US-09-362-831-3
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Patent No. 6268552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: BUBLOT et al.
TITLE OF INVENTION: AVIAN RECOMBINANT LIVE VACCINE USING, AS VECTOR, THE
TITLE OF INVENTION: AVIAN INFECTIOUS LARYNGOTRACHEITIS VIRUS
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LENGTH: 204
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Li, Yi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/O CURRENT FILING DATE: 1999-07-28 NUMBER OF SEQ ID NOS: 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE:
                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60
FILING DATE: 06-MAY-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                          SOFTWARE: PatentIn Rel
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Rhizobium meliloti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Li, Yi
TITLE OF INVENTION:
                                                                                                                                                                                                                                                                    STATE: Col
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  184 GGFGP 188
                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  199 GGFGP 203
NAME: Ferber, Donna M. REGISTRATION NUMBER: 33,878
                                                                                                              APPLICATION NUMBER: US/0 FILING DATE: 06-MAY-1998
                                                                                                                                                                                                                                            ZIP: 80303
                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                        STREET:
                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
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                                                                                                                                                                                                                                                                         Colorado
                                                                                                                                                                                                                                                                                                       E: Greenlee, Winner and Sullivan, P.C. 5370 Manhattan Circle, Suite 201
                                                                                                                                                                                                                                                          SD
                                                                                                                                                           PatentIn Release #1.0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 31; DB 4;
100.0%; Pred. No. 1.1e+02;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                   Transgenic Seedless Plants
                                                             US 60/045,725
                                                                                                                           US/09/073,587
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Pred. No.
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                                                                                                                                                           Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94;
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; SEQ ID NO 1
LENGTH: 739
; TYPE: PRT
; ORGANISM: Nicotiana tabacum
US-09-503-922-1
                                                                                                                                                                                                                                                                                                             RESULT 7
US-08-817-900-2
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Best Local S
Matches 5
                                                                                                                                                                                                                                                                              Sequence 2
Patent No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                          APPLICANT: BÜRR, KEITH WILLIAM
APPLICANT: RAMSDEN, MARTIN
APPLICANT: ILLING, GRAHAM TIMOTHY
APPLICANT: HARRISON, LESLIE ANN
APPLICANT: MAISHAN, NICHOLAS JOHN
APPLICANT: SPENCE, DAVID WILSON
APPLICANT: SLADE, ANDREW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: PAI, Hyun-Sook
APPLICANT: LIU, Jang-Ryol
APPLICANT: CHO, Hye-Sun
APPLICANT: CHO, Hye-Sun
TITLE OF INVENTION: A NOVEL CHITIN-BINDING RECEPTOR KINASE AND THE GENE
TITLE OF INVENTION: THEREOF
FILE REFERENCE: seq
                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/503,922
CURRENT FILING DATE: 2000-02-14
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patentin Ver: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
LENGTH: 733 amino acids
                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
CITY: ARLINGTON STATE: VIRGINIA COUNTRY: U.S.A. 21P: 22201-4714
                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                430 GGFGP 434
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                                                              STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE:
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                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                              1 GGFGP 5
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                                                                                                                                                                                                                                                                               2, Application US/08817900
5. 5919648
                                                              1100 NORTH GLEBE ROAD
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                                                                                                                            INDUSTRIAL ENZYMES
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Pred. No.
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Matches 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence 2,
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CLASSIFICATION DATA:
APPLICATION NUMBER: GB 9423
ETILING DATE: 17-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: CRAWFORD, ARTHUR R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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TELEFAX: (703) 816-410
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IIBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/236,645
            ATTORNEY/AGENT INFORMATION:
NAME: CRAWFORD, ARTHUR R.
REGISTRATION NUMBER: 25,3
                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 25,327
REFERENCE/DOCKET NUMBER: 1430-157
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                                                                                                                            STREET: 1100 NOF
CITY: ARLINGTON
STATE: VIRGINIA
                                                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                               COUNTRY: U.S.A.
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REFERENCE/DOCKET NUMBER: 1430-157
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                                                                                                                                                                                                                                                                                                                                                  1100 NORTH GLEBE ROAD
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                                                                                                                                                                                                                                                                                                                                                                                                                                 SPENCE, DAVID
SLADE, ANDREW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HARRISON, LESLIE ANN
MAISHMAN, NICHOLAS JOHN
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ILLING, GRAHAM TIMOTHY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEITH WILLIAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   816-4100
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                                                                                                                                                                                                                                                                                                                                                                                                                    INDUSTRIAL ENZYMES
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Pred. No. 3.1e+02;
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RESULT 10
US-08-460-269C-2
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US-09-010-928B-4
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            Sequence 2, Application US/08460269C Patent No. 6197548
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; MOLECULE TYPE: protein US-09-236-645-2
                                                                                                                                                                                      Matches
                                                                                                                                                                                                                  Query Match
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GENERAL INFORMATION:
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Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: INFORMATION FOR SEQ ID NO: 4:
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                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 907 amino acids
                                                                                                                                                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M
REGISTRATION NUMBER: 28977
                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
FILING DATE: 22-JAN-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Lewis, Randolph V
APPLICANT: Hayashi, Cheryl Y
TITLE OF INVENTION: EXTREMELY ELASTIC SPIDER SILK PROTEIN AND DNA
TITLE OF INVENTION: CODING THEREFOR
                                                                                                                          128 GGFGP 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 796 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 816-4000
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300 GGFGP 304
                                                                                                                                                                                    Local Similarity es 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 8110 GATEHO CITY: FALLS CHURCH
                                                                                                                                                      1 GGFGP 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: UNITED STATES OF AMERICA
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APPLICANT: CLARE, JEFFREY J.
                                                                                                                                                                                                                                                                                        amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: BIRCH, STEWART,
8110 GATEHOUSE RD.
                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PatentIn Release #1.0, Version #1.30
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816-4100
7 NO: 2:
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                                                                                                                                                                            Score 31; DB &; Pred. No. 3.4e+02;
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SUITE 500E
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Pred. No.
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RESULT 11
US-08-460-269C-4
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION UMBER: US/08/460,269C

FILING DATE: 02-Unn-1995

ATTORNEY/AGENT IMPORMATION:

NAME: Lebovitz, Richard M.

NAME: Lebovitz, Richard M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              281 GGFGP 285
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mes 5; Conserv
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                                                       COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA: Release #1.0, Version #1.30
APPLICATION NUMBER: US/08/460,269C
ETLING DATE: 02-Jun-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                       COUNTRY: USA
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 17 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                             ROMANOS, MICHAEL A.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: CLARE, JEFFREY J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
NAME: Lebovitz, Richard M. REGISTRATION NUMBER: 37,067 REFERENCE/DOCKET NUMBER: Po
                                                                                                                                                                                                                                                                          STATE: VA
                                                                                                                                                                                                                                                                                          CITY: ARLINGTON
                                                                                                                                                                                                                                                                                                    ADDRESSEE: Millen, White, Zelano & Branigan, STREET: 2200 Clarendon Blvd., Suite 1400
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TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA
ZIP: 22201
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Pred. No. 3.5e+02;
; Mismatches 0;
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RESULT 13
US-08-861-464-8
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                                                                                                                               Matches
                                                                                                                                                            Query Match
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                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: LENGTH: 922 amino acids
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                                                              281 GGFGP 285
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276 GGFGP 280
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mes 5; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Millen, White, Zelano & Branigan, P.C.
STREET: 2200 Clarendon Blvd., Suite 1400
CITY: ARLINGTON
                                                                                                                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 243-6333
TELEFAX: (703) 243-6410
                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/460,269C FILING DATE: 02-Jun-1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ROMANOS, MICHAEL A.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS PROTEIN IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO:
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                                                                                                                                                                                                         SEQUENCE DESCRIPTION: SEQ ID NO:
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SEQUENCE CHARACTERISTICS:
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                                                                                             GGFGP 5
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5; Conserv
                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: Popov-2
                                                                                                                                                                                                                                                                                                                                                                                     NAME: Lebovitz, Richard M.
REGISTRATION NUMBER: 37,067
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                                                                                                                               Conservative
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                                                                                                                           Score 31; DB 4;
Pred. No. 3.5e+02;
; Mismatches 0;
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Pred. No. 3.5e+02;
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US-08-396-001-8
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                                                                                                                                                                                    Patent No.
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Best Local
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GENERAL INFORMATION:
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                                                                                               GENERAL INFORMATION:
APPLICANT: Guarente, Leonard P.
APPLICANT: Austriaco Jr., Nicanor
APPLICANT: Claus, James
APPLICANT: Cole, Francesca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 1186 amino aci
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                 NUMBER OF SEQUENCES:
                                                 APPLICANT: Kennedy, Brian TITLE OF INVENTION: Genes TITLE OF INVENTION: Yeast
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APPLICATION NUMBER:
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                       238 GGFGP 242
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nes 5; Conserv
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                                                                                                                                                                                                                                                                                                                       1 GGFGP 5
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                                                                                                                                                                                        8, Application US/08396001
5. 5919618
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1186 amino acids
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
Hamilton, Brook, Smith & Reynolds, P.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-AUG-1994
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                                                                 Genes Determining Cellular Senesence in
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APPLICANT: Guarente, Leonard P.
APPLICANT: Austriaco Jr., Nicanor
APPLICANT: Claus, James J.
APPLICANT: Claus, James J.
APPLICANT: Claus, James J.
APPLICANT: Claus, James J.
APPLICANT: Cole, Francesca
APPLICANT: Kennedy, Brian
ITILE OF INVENTION: YEAST
FILE OF INVENTION: YEAST
FILE OF INVENTION: YEAST
FILE REFERENCE: 0050.1491-003
CURRENT APPLICATION NUMBER: US/09/323,433A
CURRENT APPLICATION NUMBER: US/09/323,433A
CURRENT FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US/08/396,001
PRIOR APPLICATION NUMBER: US/08/396,001
PRIOR APPLICATION NUMBER: US/08/396,001
PRIOR APPLICATION NUMBER: US/08/3951
PRIOR APPLICATION NUMBER: US/08/3951
PRIOR APPLICATION NUMBER: US/08/396,001
                                                                                                                                                  ; SOFTWARE: FastSEQ for Windows Version 3.0; SEQ ID NO 8; LENGTH: 1186; TYPE: PRT; ORGANISM: Homo sapiens US-09-323-433A-8
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US-09-323-433A-8
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NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: MIT-6408A2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEPAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                  Matches
                                                                                                     Query Match
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Patent No. 6218512
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/396,001
FILING DATE: 28-FEB-1995
CLASSIFICATION: 435
CCASSIFICATION: 435
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| 238 GGFGP 242
                                               y Match 100.0%;
Local Similarity 100.0%;
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Local Similarity 100.0%; F
hes 5; Conservative 0;
1 GGFGP 5
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TYPE: amino acid
TOPOLOGY: linear
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Pred. No. 4.4e+02;
D; Mismatches 0;
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Pred. No. 4.4e+02;
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238 GGFGP 242

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Search completed: March 17, 2003, 12:11:51 Job time : 13 secs

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Result
No.
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Maximum Match 100%
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       GenCore version 5.1.4_p5_4578 (c) 1993 - 2003 Compugen Ltd.
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US-09-738-626-4310
US-09-919-172-41
    US-09-801-220-4

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Sequence 8, Appli
Sequence 7, Appli
Sequence 13, Appli
Sequence 10, Appli
Sequence 11, Appl
Sequence 11, Appl
Sequence 6472, Ap
Sequence 656, App
Sequence 10, Appl
Sequence 1180, Ap
Sequence 410, Appli
Sequence 41, Appli
Sequence 41, Appli
Sequence 4, Appli
Sequence 5, Appli
Sequence 6, Appli
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US-10-028-072-10	US-09-861-597-2	US-09-712-363-156	US-09-738-626-3720	US-09-036-613-7	US-09-818-066-60	US-09-738-973-435	US-09-854-133-435	US-09-864-761-46558	US-09-867-550-516	US-09-861-597-9	US-09-864-761-47716	US-09-040-518-3	US-08-424-550B-405	US-09-808-880-3	US-09-988-462-7	US-09-826-752-8	US-09-854-845-10	US-09-854-845-12	US-09-854-845-4	US-09-854-845-8	US-09-854-845-2	US-09-854-845-6	US-09-854-845-14	US-09-854-845-16	US-09-855-754-6
Sequence 10, Appl	2	Sequence 156, App	Sequence 3720, Ap	Sequence 7, Appli	Sequence 60, Appl	Sequence 435, App		Sequence 46558, A	51	Sequence 9, Appli	7		2	ω		8,	10,	12,	4	8	N	6, A	14,	Ġ	Sequence 6, Appli

ALIGNMENTS

RESULT 1 US-09-855-754-8

Sequence 8, Application US/09855754 Publication No. US20020192237A1

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GENERAL INFORMATION:

APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE R
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPETUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PATENTIN Ver: 2.1
     US-09-855-754-7

Sequence 7, Application US/09855754

Publication No. US20020192237A1

GENERAL INFORMATION:
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, VICOLE
TITLE OF INVENTION: POLYPEPTIDES CC
                                                                                                                                                                                                                                                                                                                                                                                                                                        ; SEQ ID NO 8; LENGTH: 46; TYPE: PRT; ORGANISM: Bordetella bronchiseptica US-09-855-754-8
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Best Local S
Matches 5
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CONTAINING POLYMORPHISMS OF THE REPEATED
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Mismatches 0; Indela
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US-09-855-754-9
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: LENGTH: 51
: TYPE: PRT
: ORGANISM: Bordetella bronchiseptica
US-09-855-754-7
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TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AI
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE II
TITLE OF INVENTION: TRUMUNGERIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR PAPLICATION NUMBER: 60/206,969
PRIOR PRILING DATE: 2000-05-25
                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                    Sequence 9, Application US/09855754
Publication No. US20020192237A1
APPLICANT: BOURSAUX-EUDE, CAROLINE
APPLICANT: BOURSAUX-EUDE, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOZENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
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Best Local
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: IMPUNOSENIC COMPOSITIONS
TITLE OF INVENTION: IMPUNOSENIC COMPOSITIONS
TILE REFERENCE: 03495-0206-0000
CURRENT APPLICATION NUMBER: US/09.855,754
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR SEQ. ID NOS: 24
NUMBER OF SEQ. ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 13
LENGTH: 51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 13, Application US/09855754 Publication No. US20020192237A1
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Best Local Similarity
Watches 5; Conserv
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Publication No.
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
       TITLE OF INVENTION: POLYEPPIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: INMUNOSENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000 CURRENT FILLING DATE: 2001-09-10 PRIOR APPLICATION NUMBER: US/09/855,754 CURRENT FILLING DATE: 2001-09-10 PRIOR APPLICATION NUMBER: 60/206,969 PRIOR APPLICATION NUMBER: 60/206,969 PRIOR FILING DATE: 2000-05-25
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Best Local S
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TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: HORDETELLA PERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: HORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: HORDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
PRIOR FILLING DATE: 2001-09-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 9
LENGTH: 56
NUMBER OF
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PRIOR APPLICATION NUMBER: 60/20
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
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Local Similarity 100.0%; Pred. No. 19;
hes 5; Conservative 0. Minner.
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To. US20020192237A1
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No. US20020192237A1
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Pred. No. 19;
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Best Local Similarity luv.
Thes 5; Conservative
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Publication No. US20020192237a1
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CURRENT APPLICATION NUMBER: US/99/855,754

CURRENT FILING DATE: 2001-09-10

PRIOR APPLICATION NUMBER: 60/206,969

PRIOR FILING DATE: 2000-05-25
                             TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES FILE REFERENCE: 249-125 CURRENT APPLICATION NUMBER: US/09/738,626 CURRENT FILING DATE: 2000-12-18 PRIOR APPLICATION NUMBER: JP 99/377484 PRIOR FILING DATE: 1999-12-16
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APPLICANT: MIZOGUCHI, HIROSI
APPLICANT: ANDO, SEIKO
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TYPE: PRT
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23 GGFGP 27
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APPLICATION NUMBER: JP 00/159162 FILING DATE: 2000-04-07
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TATEISHI, NAOKO
SENOH, AKIHIRO
                                                                                                                               OZAKI, AKIO
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OCHIAI, KEIKO
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US-10-101-464A-656
, Sequence 656, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
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; ORGANISM: group B streptococcus
US-09-252-088-10 ·
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LENGTH: 157
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LENGTH: 137
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                                                  CURRENT APPLICATION NUMBER: US/10/101,464A CURRENT FILING DATE: 2002-03-18 PRIOR APPLICATION NUMBER: 09/704,302 PRIOR FILING DATE: 2000-11-01 PRIOR APPLICATION NUMBER: 09/228,986 PRIOR APPLICATION NUMBER: 09/228,986 PRIOR FILING DATE: 1999-01-12
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                                                                                                                                                                     APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells
TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000.1020c2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/252,088 CURRENT FILING DATE: 1999-02-18 EARLIER APPLICATION NUMBER: US/60/075,425 EARLIER FILING DATE: 1998-02-20 NUMBER OF SEQ ID NOS: 44 SOFTWARE: Patentin Ver. 2.0
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APPLICANT: MARTIN, Denis
TITLE OF INVENTION: NOVEL GROUP B STREPTOCOCCUS ANTIGENS
FILE REFERENCE: 8331-9002
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                   PRIOR APPLICATION NUMBER: 60/162,866 PRIOR FILING DATE: 1999-11-01
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PRIOR FILING DATE: 2000-08-03
NUMBER OF SED ID NOS: 7059
NUMBER OF SED ID NOS: 7.059
SOFTWARE: Patentin ver. 3.0
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PCT/US00/00724
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49;
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RESULT 12
US-09-815-242-11180
; Sequence 11180, Application US/09815242
; Patent No. US20020061569A1
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                                                                                                                                                                                                                                                                                                                                                                     ; ORGANISM: Corynebacterium glutamicum US-09-738-626-3540
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
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                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                             GENERAL INFORMATION:
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Best Local
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SEQ ID NO 3540
LENGTH: 229
TYPE: PRT
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NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 656
LENGTH: 183
                                                               APPLICANT:
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
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                                                                                                          Haselbeck, Robert
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           Trawick, John D. Carr, Grant J. Yamamoto, Robert T.
                                                        Ohlsen, Kari L.
Zyskind, Judith W.
Wall, Daniel
Xu, H. Howard
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Pred. No. 56;
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; ORGANISM: Corynebacterium glutamicum US-09-738-626-4630
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                                                          SEQ ID NO 4630
LENGTH: 496
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NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 11180
                                                                                            PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: Patentin ver. 3.0
                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
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                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
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PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
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PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
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CURRENT FILING DATE: 2001-03-21
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TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
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360 GGFGP 364
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TATEISHI, NAOKO
SENOH, AKIHIRO
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OCHIAI, KEIKO
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; NUMBER OF SEQ ID NOS: 4
; SOFTMARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 698
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus sequence
US-09-801-220-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
US-09-919-172-41
US-09-919-172-41
; Sequence 41, Application US/09919172
; Patent No. US20020119463A1
Search completed: March 17, 2003, 12:21:34 Job time : 12 secs
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US-09-801-220-4
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; OTHER INFORMATION: Incyte ID No. US20020119463A1 1798379CD1
US-09-919-172-41
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Best Local Similarity 100.
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APPLICANT: Far1s, Mary
APPLICANT: Turner, Christopher M.
APPLICANT: Turner, Christopher M.
TITLE OF INVENTION: PROSTATE CANCER MARKERS
FILE REFERENCE: PA -0036 US
CURRENT APPLICATION NUMBER: US/09/919,172
CURRENT FILING DATE: 2001-07-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/222,469
PRIOR FILING DATE: 2000-07-28
NUMBER OF SEQ ID NOS: 102
SOFTMARE: PERL Program
SEQ ID NO 41
                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Meyers, Rachel A.
APPLICANT: Williamson, Mark
TITLE OF INVENTION: 26886, A NOVEL CARNITINE ACYLTRANSFERASE
TITLE OF INVENTION: FAMILY MEMBER AND USES THEREFOR
FILE REFERENCE: 10448-026001
CURRENT APPLICATION NUMBER: US/09/801,220
CURRENT FILLING DATE: 2001-03-07
PRIOR APPLICATION NUMBER: US 60/187,456
PRIOR PILLING DATE: 2000-03-07
PRIOR FILLING DATE: 2000-03-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 645
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
                                                                              645 GGFGP 649
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Pred. No. 1.8e+02;
; Mismatches 0;
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1: pir1:
2: pir2:
3: pir3:
4: pir4:
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cytokeratin 2 ·	pollen-specific pr	paraquat-inducible	fus-like protein -	RNA-binding	acetolactate syntl	hypothetical	Tid(56) protein -	hypothetical prote	hypothetical	probable prot	hypothetical prote	hypothet1cal	probable protein	hypothetical prote	hypothetical prote

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R:Kawarabayasi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K. awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki DNA Res 6, 83-101, 1999 A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, A;Reference number: A72450; MUID:99310339; PMID:10382966 A;Accession: C72613 A;Status: preliminary A;Mccession: Description of the complete of th RESULT 1 C72613 A; Gene: hypothetical protein APES051 - Aeropyrum pernix (strain K1) C;Species: Aeropyrum pernix C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 20-Aug-1999 C;Accession: C72613 В Ş Query Match Best Local Genetics: Matches 1 GGFGP 5 ||||| 42 GGFGP 46 Local APES051 Similarity 5; Conserv 100.0%; ilarity 100.0%; Conservative 0 Score 31; Pred. No. NID:g5104821; PIDN:BAA80361.1; PID:d1044147; PID:g Mismatches Yamazaki, S.; Haikawa, Y.; Jin-no, K.; i, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, DВ 2; 0; Length 56; Indels 0; Gaps 0,

Ja.

hypothetical protein R12E2.6 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999

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Scheet, T33087

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A; Map position: A; Introns: 43/2

Best Local Similarity

100.0%;

Score 31; Pred. No.

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ν γ.

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Query Match

;Gene: CESP:R12E2.6

Genetics:

A;Cross-references: EMBL:AF067219; PIDN:AAC17027.1; GSPDB:GN00019; CESP:R12E2.6 A;Experimental source: strain Bristol N2; clone R12E2

A; Molecule type: DNA A; Residues: 1-74 <GOE>

A; Status: preliminary; translated

from GB/EMBL/DDBJ

A; Description: The sequence A; Reference number: Z21281 A; Accession: T33087

submitted to the EMBL Data Library, May 1998 A;Description: The sequence of C. elegans cosmid R12E2

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hypothetical protein AGR_C_1859 [imported] - Agrobacterium tumefaciens (strain C;Species: Agrobacterium tumefaciens C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 11-Jan-2002 C;Accession: B97483
                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-130 <KAM>
A;Cross-references: DDBJ:AP000058; NID:g5103388;
A;Experimental source: strain Kl
C;Genetics:
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C;Superfamily: Aeropyrum
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C; Date: 20-Aug-1999
C; Accession: D72780
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A;Title: Complete genome sequer
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R;Dong, J.Z.; Dunstan, D.I.
Submitted to the EMBL Data Library, June 1996
submitted to the expression during somatic embryogenesis.
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A; Residues: 1-76 <DON>
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      , B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGFGP 49
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; Allinger,
2001
                                                                                                                                                                                                                                                                                                pernix hypothetical protein
                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropy
50; MUID:99310339; PMID:10382966
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, S.; Funahashi, T.; Tanaka,
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Pred. No.
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Yamazaki,
    Markelz,
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rkelz, B.
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J.; I
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A;Cross-references: GB:AE007869; PIDN:AAK86819.1;
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                                                                                                                           C;Superfamily: nitrogen fixation regulatory protein fixJ; response C;Reywords: DNA binding; phosphoprotein; transcription regulation F;6-115/Domain: response regulator homology <RRH>F;54/Binding site: phosphate (Asp) (covalent) #status predicted
                                                                                                                                                                                                                                                                                                                            C;Species: Rhizobium meliloti
C;Date: 28-Feb-1990 #sequence_revision 28-Feb-1990 #text_change 29-Sep-1999
C;Accession: B31227; S32838; S39985
R;David, M.; Daveran, M.L.; Batut, J.; Dedieu, A.; Domergue, O.; Ghai, J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
B31227
                                                                                                                                                                                                      A; Gene: fixJ
                                                                                                                                                                                                                                                                                 A;Title: Cascade regulation of nif gene expression in Rhizobium meliloti
A;Reference number: A90901; MUID:88311069; PMID:2842062
A;Accession: B31227
                                                                                                                                                                                                                        C; Genetics
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A; Residues: 1-169 < KUR>
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A;Molecule type: DNA
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                                  1 GGFGP 5
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                                                                  Conservative
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Pred. No. 78;
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Pred. No.
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C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change C;Accession: E95345 FixJ Transcriptional activator [imported] - Sinorhizobium meliloti (strain 1021) C; Species: Sinorhizobium meliloti

; Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C Proc. Natl. Acad. Sci. U.S.A. 98, 9883-9888, 2001 A;Title: Nucleotide sequence and predicted function A;Reference number: A95262; MUID:21396509; PMID:1 A;Accession: E95345 R; Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Abola, A.P.; Surzycki, R.; entire Sinorhizobium meli Barloy-Hubler, F.;
; Wells, D.H.; Yeh,

30-Sep-2001

maga

functions of the PMID:11481432

A;Status: preliminary

A; Molecule type: DNA A; Residues: 1-204 < KUR>

A;Cross-references: GB:AE006469; PIDN:AAK65327.1; PID:g14523784; GSPDB:GN00165 A;Experimental source: strain 1021, megaplasmid pSymA R;Gallbert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barl, pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fis L.; Hyman, R.W.; Science 293, 668-Ampe, F.; Barloy-Hubl piel, N.A.; Fisher, R.

A; Authors: R.W.; Jones, T. 3, 668-672, 2001 Kahn, D.; Kahn, M.L.; Vandenbol, Vorholter, F.J.; Keating, Weidner, D.H.; Kiss, E.; Komp, C.; Lelau S.; Wells, D.H.; Wong, K.; Yeh,

ب

GGFGP

57

geno

6

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C;Accession: D70660
C;Accession: D70660
R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davles, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; H. Connor, R.; Davles, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Reference number: A86625; MUID:21235186; PMID:11337471
                                                               C; Superfamily: si
F; 61-252/Domain:
                                                                                                              A; Experimental source: C; Genetics:
                                                                                                                                                                                                                    A;Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; A;Title: Deciphering the biology of Mycobacterium tuberculosis fi A;Reference number: A70500; MUID:98295987; PMID:9634230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Residue: 1-238 <STO>
A; Cross-references: GB:AE005176; PID:g12723110; PIDN:AAK04349 1;
A:Fynorimental source: strain IL1403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   glycerol uptake facilitator [imported] - Lactococcus lactis subsp. C;Species: Lactococcus lactis subsp. lactic
                                                                                                                                                             A; Molecule type: DNA
A; Residues: 1-269 <C
                                                                                                                                                                                                        A; Reference number: A70500; A; Accession: D70660
                                                                                                                                                                                                                                                                                                                                              C;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 20-Jun-2000
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C; Superfamily: ni
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                                                                                                                                                                                        A; Status: preliminary; nucleic acid sequence
                                                                                                                                                                                                                                                                                                                                                                                     probable aroE -
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                                                                                                                          Cross-references: GB:Z83863; GB:AL123456; Experimental source: strain H37Rv
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Best Local
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A; Molecule type: DNA

/A; Molecule type: DNA

//A; Residues: 1-280 <COL>

A; Cross-references: GB:Z70283; GB:AL123456; NID:g3261561; PIDN:CAA94263.1;

A; Experimental source: strain H37Rv
C:Keywords: chromoprotein; heme; iron; metalloprotein F:82, 85/Binding site: heme (Cys) (covalent) #status predicted F:86/Binding site: heme iron (His) (axial ligand) #status predicted F:183,186/Binding site: heme (Cys) (covalent) #status predicted F:187/Binding site: heme iron (His) (axial ligand) #status predicted
                                                                                                                                                                                                                                                                                                                  Nature 409, 1007-1011, 2001
A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.;
A;Title: Massive gene decay in the leprosy bacillus.
A;Reference number: A86909; MUID:21128732; PMID:11234002
A;Accession: C87019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F;174/Binding site: heme (Cys) (covalent) #status predicted F;178/Binding site: heme (Cys) (covalent) #status predicted
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C70784
                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Cole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.; Thomson, N.R.; Wheeler, R.; Davies, R.M.; Devlin, K.; Duthoy, S.; Feltwell, T.; Fraser, A.; Hamlin, N.; eam, M.A.; Rutherford, K.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein qcrC [imported] - Mycobacterium leprae C;Species: Mycobacterium leprae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Gene: qcrC
C;Superfamily: Streptomyces coelicolor probable diheme cytochrome
C;Keywords: chromoprotein; heme; iron; metalloprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Bar A; Title: Deciphering the biology of Mycobacterium tuberculosis from A; Reference number: A70500; MUID:98295987; PMID:9634230
                                                                                                                                                                                                                A;Cross-references: GB:AL450380; NID:g13092954; PIDN:CAC31262.1; GSPDB:GN00147
                                                                                                                                                                                                                                            A; Molecule type: DNA A; Residues: 1-289 <STO>
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Nature 393, 537-544,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Cole, S.T.; Brosch, R.; Connor, R.; Davies, R.;
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C; Species: Mycobacterium tuberculosis
                                                                                                                                                                 A; Gene:
                                                                                                                                                                                                                                                                                            A; Status: preliminary
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                                                                                                                                  Superfamily: Streptomyces coelicolor probable diheme
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Length

289

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RESULT 14
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hypothetical protein BH1222 [imported] - Bacillus halodurans (strain C-125)
C;Species: Bacillus halodurans
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                                                                                                                                                                                                                                                                       C; Superfamily: Pyrococcus horikoshii hypothetical protein PH0972
                                                                                                                                                                                                                                                                                                                                                                                                                                            R:Kawarabayasi, Y.; Sawada, M.; Horlkawa, H.; Halkawa, Y.; Hino, Y.; Yamamoto, M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, t DNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the genome of a hyper-theri A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: G71088
                                                                                                                                                                                                                                                                                                                                        A; Note: this accession
                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: GB:AP000004; NID:g3236131; PIDN:BAA30069.1; PID:g3257386
A;Experimental source: strain OT3
                                                                                                                                                                                                                                                                                                                                                                                                     A; Residues:
                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary; nucleic acid sequence not shown; translation not shown
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A;Title: Complete Genome Sequence of Caulobacter crescentus.
A;Reference number: A87249; MUID:21173698; PMID:11259647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Superfamily: Yersinia pestis hypothetical 29.7K protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Cross-references: GB:AE005673; NID:g13425417; PIDN:AAK25621.1; GSPDB:GN00148
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A; Residues: 1-295 <STO>
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A87703
citrate lyase beta subunit, probable [imported] - Caulobacter crescentus
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Pred. No. 1.1e+02;
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Pred. No.
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Search completed: March 17, 2003, 12:11:08 Job time: 15.3333 secs

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A; Residues: 1-348 <KUR>
A; Cross-references: GB:
                                                                                                                                                                                                                                                                                                                                                  R;Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Science 294, 2323-2328, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Decide type: DNA
A; Molecule type: DNA
A; Residues: 1-326 <STO>
A; Cross-references: GB:AP001511; GB:BA000004; NID:g10173727; PIDN:BAB04941.1;
A; Cross-references: Strain C-125
                                                                                                                                                             A; Map position:
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A.; Liu, F.; V
                                                                                                                                                                                                                                                                                                                                                                                                              probable zinc-binding alcohol dehydrogenase (D-mannonate hydrolase) [imported] - C;Species: Agrobacterium tumefaciens C;Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 11-Jan-2002
                                                                                                                                                                                A;Gene: AGR_L_3122
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Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans a
A;Reference number: A33650; MUID:20512582; PMID:11058132
A;Accession: F83802
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 15-Jun-2001
C;Accession: F83802
R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Magui, N.; F
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                                                                                                                                   dehydrogenase; long-chain alcohol dehydrogenase
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Pred. No.
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           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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        GenCore version 5.1.4_p5_4578 (c) 1993 - 2003 Compugen Ltd.
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Y804_HAEIN
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P10958 rhizobium m
Q10386 mycobacteri
O69583 mycobacteri
O15991 eisenia foe
P27458 achromobact
P71369 haemophilus
  P50202
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MEDLINE=20113479; PubMed=10647182;
GOUDET P., Fabry B., Guillet V., Birck C., Moure
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regulates nitrogen fixation
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EMBO J. 8:1279-1286(1989).
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                             s SWISS-PROT entry is copyright. It is produced through a cween the Swiss Institute of Bioinformatics and the EMBL European Bioinformatics Institute. There are no restrict by non-profit institutions as long as its content is lifted and this statement is not removed. Usage by and ic its requires a license agreement (See http://www.isb-sib.send an email to license@isb-sib.ch).
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Q10386; Q10386; Q1-OCT-1996 (Rel. 34, Created)
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Peterson J., DeBoy R., Dodson R.,
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                          D., Eisen J.A., Carpenter L., White O., odson R., Gwinn M.L., Haft D., Hickey E., Umayam L.A., Ermolaeva M.D., Salzberg, Weidman J., Khouri H., Gill J., Mikula
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H-T-H MOTIF (BY SIMILARITY).
; 2EDA356967352292 CRC64;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mycobacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                 Harris
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Best Local
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                                                                                                                                                                                          MEDLINE-21128732; PubMed-11234002;
Cole S.T., Eiglmeier K., Parkhill J., James K.D., Thomson N.R.,
Wheeler P.R., Honore N., Garnier T., Churcher C., Harris D.,
Wheeler P.R., Honore N., Garnier T., Churcher C., Harris D.,
Mungall K., Basham D., Brown D., Chillingworth T., Connor R.,
Mungall K., Basham D., Brown D., Chillingworth T., Fraser A., Hamlin N.,
Davies R.M., Devlin K., Duthoy S., Feltwell T., Fraser A., Hamlin N.,
Holroyd S., Hornsby T., Jagels K., Lacroix C., Müclean J., Moule S.,
Murphy L., Oliver K., Quali M.A., Rajandream M.A., Rutherford K.M.,
Rutter S., Seeger K., Simon S., Simonds M., Skelton J., Squares R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-MAY-2000
16-OCT-2001
15-JUN-2002
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TRANSMEM
SEQUENCE
                           "Massive gene decay in the leprosy bacillus.";
Nature 409:1007-1011(2001).
-1- SUBUNIT: THE MAIN SUBUNITS OF THE UBIQUINO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MYCLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Electron
BINDING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ubiquinol-cytochrome C rec
QCRC OR ML0881 OR MLCB268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QCRC_MYCLE
069583;
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InterPro; IPR000345; Cyt_CI.
InterPro; IPR003088; Cyt_CI.
InterPro; IPR00304; Cytochrome_c; 1
Pfam; PF00034; Cytochrome_C; 1
ProDom; PD004020; Cyt_CIC; 1
PROSITE; PS00190; CYTOCHROME_C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             laboratory strains.";
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
SUBUNIT: THE MAIN SUBUNITS OF THE UBIQUINOL:CYTOCHROME
ARE: CYTOCHROME B, THE RIESKE PROTEIN AND A CYTOCHROME
-1- SIMILARITY: SOME, TO CYTOCHROME C.
                                                                                                                                          Squares S., Barrell B.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Actinomycetales;
NCBI_TaxID=1769;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; Z70283; CAA94263.1; -.
EMBL; AE007071; AAK46536.1;
TIGR; MT2250; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacteria; Actinobacteria; Actinobacteria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mycobacterium leprae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     METAL
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1 (Rel. 40, 1
2 (Rel. 41,
                                                                                                                                                                     Stevens
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73 HEME 1 (COVALENT) (POTENTIAL).
76 HEME 1 (COVALENT) (POTENTIAL).
77 IRON 1 (HEME AXIAL LIGAND) (POTENTIAL).
174 HEME 2 (COVALENT) (POTENTIAL).
177 IRON 2 (HEME AXIAL LIGAND) (POTENTIAL).
178 IRON 2 (HEME AXIAL LIGAND) (POTENTIAL).
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3, THE RIES
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Last sequence update)
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C reductase cytochrome C
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Pred. No. 59;
D; Mismatches
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THE UBIQUINOL: CYTOCHROME PROTEIN AND A CYTOCHROME
                                                                                                                                                              whitehead S., Wood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mycobacteriaceae; Mycobacterium
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d J.R.,
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SUBUNIT.
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Best Local
                                                                                                                                                                                                                      SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.

MEDILINE-98094195; PubMed-9434106;

SUZUKİ T., KAWASAKİ Y., Furukohri T., Ellington W.R.;

"Evolution of phosphagen kinase. VI. Isolation, characterization and CDNA-derived amino acid sequence of lombricine kinase from the earthworm Eisenia foetida, and identification of a possible candidate for the guanidine substrate recognition site.";

Biochim. Biophys. Acta 1343:152-159(1997).

-I- CATALYTIC ACTYUTY: ATP + lombricine. ADP + N-phospholombricine.

-I- SUBUNIT: HOMODIMER (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
15-Discription kinase (EC 2.7.3.5) (LK).
Elsenia foetida (Common brandling worm) (Common dung-worm).
Eukaryota; Metazoa; Annelida; Clitellata; Oligochaeta; Hapi
                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          use by non-profit institutions as long modified and this statement is not removed entities requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This
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InterPro; IPR003088; Cyt_CI.
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HSSP; P56534; 1C6S.
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European Bioinformatics Institute.
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PD004020; cyt_CIC; 1.
PS00190; cYTOCHROME_C;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a content the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fo
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                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long modified and this statement is not remove entitles requires a license agreement (Secons send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Molecular cloning and nucleotide sequence of the beta-lytic pene from Achromobacter lyticus.";

J. Bacteriol. 172:6506-6511(1990).

-I- CATALYTIC ACTIVITY: Cleavage of N-acetylmuramoyl-|-Ala, and insulin B chain at 23-Gly-|-Phe-24 > 18-Val-|-Cys(SO(3)H).

-I- COFACTOR: BINDS ONE ZINC ION.
                                                                                                                                                                                                                                                                                                                                                   MEROPS; M23.001;
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01-AUG-1992 (Rel. 23, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation updat
Beta-lytic metalloendopeptidase precursor (
                                                                                                                                                                                                                                                                                                                                   InterPro;
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Bacteria; Proteobacteria;
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SIMILARITY: BELONGS TO PEPTIDASE FAMILY M23.
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nilarity 100.0%;
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ilarity 100.0%;
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                                                    Score 31; DB
Pred. No. 76;
); Mismatches
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ZINC (POTENTIAL).
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Pred. No. 75;
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431E51B84575DE14 CRC64;
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Science 269:496-512(1995).
-I- SUBCELLULAR LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                     Hypothetical protein;
                                                                                                                                                                                                                                                                                                                                                                                           PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR004746; Bnzte_transport.
InterPro; IPR003662; sub_transporter.
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MEDLINE-95350630; PubMed-7542800;
Fleischmann R.D. Adams M.D. Whi
Kerlavage A.R. Bult C.J., Tomb J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "whole-genome random sequencing and assembly of Haemophilus influenzae
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30-MAY-2000
15-JUN-2002
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P71369;
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SUGAR_TRANSPORT_2;
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    Jast sequence update
    Last annotation update

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Dougherty B.A., Merrick J.M.,
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.

Barker R.F., Idler K.B., Thompson D.V., Kemp J.D.,

"Nucleotide sequence of the T-DNA region from the Agrobacterium
tumefaciens octopine Ti plasmid pTi15955.";
Plant Mol. Biol. 2:335-350(1983)
-I- FUNCTION: REDUCES DEOXY-FRUCTOSYL-GLUTAMINE TO MANNOPINE.
-I- PATHWAY: AGROPINE / MANNOPPINE SYNTHESIS.
-I- SIMILARITY: BELONGS TO THE SHORT-CHAIN DEHYDROGENASES/REDUCTASES
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InterPro; IPR002198; ADH_short.
InterPro; IPR001345; PG/BPGM_mutase.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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01-CCT-1996 (Rel. 34, Last sequence update)
15-JUN-2002 (Rel. 44, Last annotation update)
Agropine synthesis reductase (EC 1.-.-).
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STANDARD;
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Pred. No. 86;
D; Mismatches
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CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).

11 (POTENTIAL).
PRT;
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Query Match
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Pfam; PF00076; rrm; 1.
Pfam; PF000641; zf-RanBP; 1.
SMART; SM00360; RRM; 1.
SMART; SM00547; ZnF_RBZ; 1.
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Mammalia; Eutheria; C
Bovidae; Bovinae; Bos
NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alliegro M.C.;

"A C-terminal carbohydrate-binding domain in the endothelial cell
regulatory protein, pigpen: new function for an EWS family member.";
regulatory protein, pigpen: new function for an EWS family member.";
Exp. Cell Res. 255:270-277(2000).
-i- FUNCTION: BINDS BOTH SINGLE-STRANDED AND DOUBLE-STRANDED DNA AND
PROMOTES ATP-INDEPENDENT ANNEALING OF COMPLEMENTARY SINGLE-
STRANDED DNAS AND D-LOOP FORMATION IN SUPERHELICAL DOUBLE-STRANDED
STRANDED DNAS AND D-LOOP FORMATION IN SUPERHELICAL DOUBLE-STRANDED
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Bos taurus
                                                          DOMAIN
ZN_FING
                                            SEQUENCE
                                                                                                                                                         PROSITE: PS00030; RRM_RNP_1; FALSE_NEG PROSITE; PS01358; ZF_RANBP2_1; 1. PROSITE; PS50199; ZF_RANBP2_2; 1.
                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute. There are no restuse by non-profit institutions as long as its content modified and this statement is not removed. Usage by an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -I- DOMAIN: THE C-TERMINAL DOMAIN BINDS CARBOHYDRATES.
-I- SIMILARITY: CONTAINS 1 RNA RECOGNITION MOTIF (RRM).
-I- SIMILARITY: CONTAINS 1 RANBP2-TYPE ZINC FINGER.
-I- SIMILARITY: BELONGS TO THE TET FAMILY OF RNP PROTEINS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "A nuclear protein regulated during the transition from active quiescent phenotype in cultured endothelial cells."; Dev. Biol. 174:288-297(1996).
                                                                                       DOMAIN
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01-NOV-1997
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15-JUN-2002
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SUBCELLULAR LOCATION: NUCLEAR, E
SUBCELLULAR LOCATION: NUCLEOLI),
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SUBUNIT: COMPONENT OF NUCLEAR RIBOPROTEIN COMPLEXES
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100.0%;
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Znf_RanGDP.
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SEQUENCE
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SMART; SM00547; ZNF RBZ; 1.
SMART; SM00547; ZNF RBZ; 1.
PROSITE; PS501029; RRM; 1.
PROSITE; PS00030; RRM_RNP_1;
PROSITE; PS01358; ZF_RANBP2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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-I- SUBUNIT: COMPONENT OF NUCLEAR RIBOPROTEIN COMPLEXES. I WITH ILE3 (By similarity).

-I- SUBCELLULAR LOCATION: Nuclear (By similarity).

-I- SIMILARITY: CONTAINS 1 RNA RECOGNITION MOTIF (RRM).

-I- SIMILARITY: CONTAINS 1 RANBP2-TYPE ZINC FINGER.

-I- SIMILARITY: BELONGS TO THE TET FAMILY OF RNP PROTEINS.
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InterPro; IPR001876; Znf_RanGDP.
Pfam; PF00076; rrm; 1.
Pfam; PF00641; zf-RanBP; 1.
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Mammalia; Eutheria;
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                                                                                 Score 31;
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                                                          Mismatches
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                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                  MEDITINE-99369251; PubMed-10442642; Bertrand P., Akhmedov A.T., Delacote F., D "Human POMp75 is identified as the pro-onc POMp75 and POMp100 DNA homologous pairing to cell prolifieration."; Oncogene 18:4515-4521(1999).
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                                                                                                           Cancer Res. 54:2865-2868(1994).
-I- FUNCTION: BINDS BOTH SINGLE-STRANDED AND DOUBLE-STRANDED DNA AND PROMOTES ATP-INDEPENDENT ANNEALING OF COMPLEMENTARY SINGLE-STRANDED DNAS AND D-LOOP FORWATION IN SUPERHELICAL DOUBLE-STRANDED DNAS AND D-LOOP FORWATION OF GENOMIC INTEGRITY.
-I- SUBUNIT: COMPONENT OF NUCLEAR RIBOPROTEIN COMPLEXES. INTERACTS WITH ILF3.
                                                                                                                                                                                                                                                               "An RNA-binding protein gene, TLS/FUS, is fused to ERG in hamyeloid leukemia with t(16;21) chromosomal translocation.";
                                                                                                                                                                                                                                                                                                           CHROMOSOMAL TRANSLOCATION.
MEDLINE=94243799; pubMed=8187069;
IChikawa H., Shimizu K., Hayashi Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Baechtold H., Kuroda M., Sok J., Ron E
"Human 75-kba DNA-pairing protein is
"TLS/FUS and is able to promote D-loop
J. Biol. Chem. 274:34337-34342(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. (LONG AND SHORT MEDILINE=99013873; PubMed=9795213; MOTOHOSHI F., Octsuka Y., Arai K., Munakata N., Ohki M.; "Genomic structure of the human RBF Gene 221:191-198(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NOBL rans. [1]
[1]
SEQUENCE FROM N.A. (LONG ISOFOKE, .
SEQUENCE FROM P., Mandahl N., Ron D.;
MEDLINE-93288139; PubMed-8510758;
MEDLINE-93288139; PubMed-8510758;
MEDLINE-93288139; PubMed-8510758;
                                                                                                                                                                                                                                                                                                                                                                                    [6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE OF 265-276; 317-331 AND 335-357,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20036580; PubMed=10567410;
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FUS OR TLS.
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15-JUN-2002
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MEDLINE=93350637; PubMed-7503811;
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                     SUBCELLULAR LOCATION: Nuclear.
ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG
SHORT FORM, ARE PRODUCED BY ALTERNATIVE
TISSUE SPECIFICITY: UBIQUITOUS.
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(Rel. 29, Last sequence update)
(Rel. 41, Last annotation update)
protein FUS (Oncogene FUS) (Oncogene TLS) (Translocated protein) (POMp75) (75 kDa DNA-pairing protein).
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Primates;
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    MALIGNANT
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MYXOID LIPOSARCOMA IS
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pairing activities are
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pro-oncoprotein

349-357,

BY A CHROMOSOMAL TRANSLOCATION T(12;16)(Q13;P11) THAT INVOLVES FUS AND CHOP.

OF ACUTE MYELOID LEUKEMIA (AML) IS CHARACTERIZED TRANSLOCATION T(16;21)(P11;222) THAT INVOLVES

DISEASE: A FORM BY A CHROMOSOMAI

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Matches 5
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DOMAIN 166
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SITE 266
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CONFLICT
SEQUENCE
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PROSITE; PS50103; RRM_RNP_1; FALSE_NEG.

PROSITE; PS00030; RRM_RNP_1; 1.

PROSITE; PS01358; ZF_RANBP2_1; 1.

PROSITE; PS50199; ZF_RANBP2_2; 1.

PROSITE; PS50199; ZF_RANBP2_2; 1.

PROSITE; PS50199; ZF_RANBP2_2; 1.

Proto-oncogene; RNA-binding; DNA-binding; Nuclear protein; Repeat;

Proto-oncogene; RNA-binding; DNA-binding; Zinc-finger; Zinc
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    Eukaryota;
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                          Omo
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InterPro; IPR001876;
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MIM; 151900
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HSSP; P09651; 1HA1.
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; S62138; AAB27103.1; ALT_SEQ.
L; X71427; CAA50558.1; ALT_SEQ.
L; X71428; CAA50559.1; ALT_SEQ.
L; AF071213; AAC35285.1; ...
L; AF071213; AAC35284.1; ...
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sapiens (Human).
ryota; Metazoa; Chordata;
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PF00641; zf-RanBP; 1.
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SM00547; ZnF_RBZ; 1.
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5; Conserv
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TG -> S (IN SHORT ISOFORM)
T -> N (IN REF. 4).
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GLY-RICH.
RNA-BINDING (RRM).
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RANBP2-TYPE.
BREAKPOINT FOR TRANSLOCATION
Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                       Score 31;
Pred. No.
                                                                                                                                                                            PRT;
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K22E_HUMAN
                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 5
                                                                                                                                                                      01-JUN-1994
01-JUN-1994
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/aror send an email to license@isb-sib.ch).
TISSUE-Thigh epidermis;
MEDLINE-92380238; PubMed-1380918;
Collin C., Moll R., Kubicka S., O
                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
DOMAIN
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DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -i- MISCELLANEOUS: THERE ARE TWO TYPES OF CYTOSKELETAL AND MICROFIBRILLAR KERATIN: I (ACIDIC: 40-55 kDa) [K9 TO K (NEUTRAL TO BASIC: 56-70 kDa) [K1 TO K8].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Differentiation 51:137-148(1992).

--- FUNCTION: PROBABLY CONTRIBUTES TO TERMINAL CORNIFICATION.

--- SUBUNIT: HETEROTETRAMER OF TWO TYPE I AND TWO TYPE II KERATINS.

--- DEVELOPMENTAL STAGE: SYNTHESIZED DURING MATURATION OF EPIDERMAL KERATINOCYTES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIINE-93114504; PubMed-1282112; Collin C., Ouhayoun J.P., Grund C., Franke W.W.; "Suprabasal marker proteins distinguishing keratinizing squamous epithelia: cytokeratin 2 polypeptides of oral masticatory epithe
                                           SEQUENCE FROM N.A.
                                                                                                                                                       Keratin, type
                                                                                                                                                                                                                  P35908;
                                                                                                                              KRT2A OR KRT2E.
                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; M99063; AAA35746.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and epidermis are different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                Homo sapiens
                                                                                                                                                                                                                              K22E_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOMAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF00038; filament;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR003054; Keratin_II.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR001664;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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5; Conserv
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                                                                                                                                                    (Rel. 29, Created)
(Rel. 29, Last sequence update)
(Rel. 40, Last annotation update)
pe II cytoskeletal 2 epidermal (Cytokeratin 2e) (K2e)
                                                                                                                                                                                                                                                                                                                                                                                                     e filament;
1 183 492
493 638
493 218
19 237
38 329
10 353
4 492
7 AA; 65871
                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                (Human).
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Primates;
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COIL 1B.
LINKER 12.
COIL 2.
COIL 2.
COIL 2.
COIL 2.
COIL 2.
PHOSPHORYLATION (BY SIMILARITY).
MW; 9B743ABB872076AF CRC64;
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Pred. No.
                                                                                   Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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S., Ouhayoun J.-P., Franke W.W.;

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MEDLINE-20087079; PubMed-10620137;
Takizawa Y., Akiyama M., Nagashima M., Shimizu H.;
Takizawa Y., Akiyama M., Nagashima M., Shimizu H.;
"A novel asparagine-->aspartic acid mutation in the rod IA domain i keratin 2e in a Japanese family with inthlyosis bullosa of Siemens.
J. Invest. Dermatol. 114:193-195(2000).
-!- FUNCTION: PROBABLY CONTRIBUTES TO TERMINAL CONNIFICATION.
-!- SUBUNIT: HETEROTETRAMER OF TWO TYPE I AND TWO TYPE II KERATINS.
-!- TISSUES SPECIFICITY: IN THE SUPRABASAL LAYERS OF EPIDERMAL
TISSUES FROM MOST BODY SITES, EXCEPT IN FORESKIN, IN SQUAMOUS
METAPLASIAS AND CARCINOMAS.
                                                                                                             +
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Pittelkow M.R., Saeki H., Ishibashi Y.,
"Mutations in the rod domain of keratin
bullosa of Siemens.";
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MEDLINE-97348962; Po
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VARIANTS IBS ASP-493 AND LYS-493.
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MEDLINE=94358461; PubMed=8077693;
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"Genomic organization and fine mapping of the keratin 2e gene K2e VI domain polymorphism and novel mutations in ichthyosis of Siemens.";
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Yan de Kerkhof P.C.M., Ropers H.-H., Steijlen
"Ichthyosis bullosa of Siemens is caused by mu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=94358459;
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DEVELOPMENT CALLS

KERATINOCYTES.

KERATINOCYTES IN KRT2A ARE A CAUSE OF ICHTHYOSIS BULLOSA OF SIZMENS (IBS), A RARE AUTOSOMAL DOMINANT DISORDER DISPLAYING A TYPE OF EPIDERMOLYTIC HYPERKERATOSIS CHARACTERIZED BY EXTENSIVE BLISTERING FROM BIRTH. HYPERKERATOSES AND SHEDDING OF THE OUTER LAYERS OF THE EPIDERMIS (MOLTING) ARE OBSERVED IN LATER WEEKS.

MISCELLANEOUS: THERE ARE TWO TYPES OF CYTOSKELETAL AND MICROFIBRILLAN KERATIN: I (ACIDIC; 40-55 kDa) [K9 TO K20] AND I (NEUTRAL TO BASIC; 56-70 kDa) [K1 TO K8].
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DLINE=97348962; PubMed=9204966; ng J.-M., Lee S., Bang H.-D., Kim W.-S., Lee E.-S., Steinert P.M.; novel threonine-to-proline mutation at the end of 2B rod domain in e keratin 2e chain in ichthyosis bullosa of Siemens."; Invest. Dermatol. 109:116-118(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Invest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Siemens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dermatol. 112:380-382(1999).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Epstein E.H. Jr.,
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2e in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1A domain in
of Siemens.";
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Tryptophan IAAM. 01-NOV-1995

2-monooxygenase 5 (Rel. 32, Create 5 (Rel. 32, Last s 5 (Rel. 32, Last a

sequence update) annotation update) (EC 1.13.12.3).

STANDARD;

723

B

Created)

Bacteria; Proteobacteria; alpha subdivision; Rhizobiaceae group, Rhizobiaceae; Rhizobium.

Agrobacterium vitis (Rhizobium vitis). Plasmid pTiS4.

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RESULT
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M_AGRVI
TR2M_AGRVI
Q04564;
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                                                                                                                                SEQUENCE
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PRINTS; PR01276; TYPE2KERATIN.
PROSITE; PS00226; IF; 1.
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InterPro; IPR003054; Keratin_II.
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Camilleri C., Jouanin L.;

The TR DNA region carrying the auxin synthesis genes of the Agrobacterium rhizogenes agropine-type plasmid pRiA4: nucleotide sequence analysis and introduction into tobacco plants.";

Mol. Plant Microbe Interact. 4:155-162(1991).

Mol. Plant Microbe Interact. 4:155-162(1991).
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  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
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Bacteria; Proteobacteria;
Rhizobiaceae; Rhizobium.
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mol. Gen. Genet. 235:292-303(1992).
-i- CATALYTIC ACTIVITY: L-tryptophan + O(2) = indole-3-acetamide
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-I- PATHWAY: FIRST STEP IN THE BIOSYNTHESIS OF AUXINS FROM TRYPTOPHAN.
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                                                                                                                                  - I - PATHWAY:
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                                                                                                               "Direct Submission.";
Submitted (AUG-2001) to the
EMBL; AF067219; AAC17027.1;
                                                                 Hypothetical SEQUENCE 74
                                                                                                                                                                                                                                     SEQUENCE FROM N.A. STRAIN-BRISTOL N2;
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Rhabditidae; Peloder
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Eukaryota; Metazoa; Chordata; Craniata;
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Acanthomorpha; Acanthopterygii; Percomor
Tetraodontidae; Takifugu.
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Hydroxybutyrate dehydrogenase.
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                                                                                             SEQUENCE FROM N.A.

STRAIN-G1, AND G12;

Yalkova N., Lepine F., Bollet C., Dupont M., Villemur R., PurbA, a gene coding for an esterase hydrolyzing paraber cloacae and E. gergoviae strains.";

Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases EMBL; AY077722; AALB2803.1; -.

EMBL; AY077723; AALB2804.1; -.
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Q8RIV5;
Q1-JUN-2002
Q1-JUN-2002
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                                                                           SEQUENCE
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01-NOV-1996
01-NOV-1996
01-DEC-2001
                                                                                                                                                                                            NCBI_TaxID=61647;
                                                                                                                                                                                                              Enterobacter gergoviae.
Bacteria; Proteobacteria;
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Eukaryota; Viridiplantae; Stre
Spermatophyta; Coniferopsida;
NCBI_TaxID=3330;
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Submitted (JUN-1996) to the EMBL/GenBank/DDBJ
EMBL; L47748; AAB01565.1; -.
SEQUENCE 76 AA; 7242 MW; 9B5B3E46D46E3F70
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Dong J.-Z., Dunstan
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01, Last sequence update)
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                               Score 31; DB 2;
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01-MAR-2002
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01-JUN-2001
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01-JUN-2002 (TremBLrel. 21,

01-JUN-2002 (TremBLrel. 21,

01-JUN-2002 (TremBLrel. 21,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN-DF-BR1;
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Pasteurella.
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Heparin-binding epidermal growth factor (Fragment).
Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
                                                                                                                                                                                                                                                                                        PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS01186; EGF_2; 1.
EGF-1ke domain; Glycoprotein.
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HSSP; Q99075; IXDT.
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Kawarabayasi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Jin-no K., Takahashi M., Sekine M., Baba S.-I., Ankai A., # Hosoyama A., Fukui S., Nagai Y., Nishijina K., Nakazawa H. Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudoh Y., Yamazaki J., Kushida N., Oguchi A., Aoki K.-I., Kubota K., Yamazaki J., Nomura N., Sako Y., Kikuchi H.;

"Complete genome sequence of an aerobic hyper-thermophilic crenarchaeon, Aeropyrum pernix Kl.";

DNA Res. 6:83-101(1999).
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InterPro; IPR001336;
Pfam; PF00008; EGF;
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NCBI_TaxID=56636;
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Malate synthase (EC 4.1.3.2) (Fragment).
Typha latifolia (Common cattail).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Typhaceae; Typha
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lewis C.E., Doyle J.J.;
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Phylogenet. Evol. 19:409-420(2001).
CATALYTIC ACTIVITY: L-MALATE + COA = ACETYL-COA +
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EMBL; AJ250082; CAB/6436.1; -.
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Polymorphism of Repeated Regions of
pertussis, Bordetella parapertussis,
Infect. Immun. 68:4815-4817(2000).
EMBL; AJ250078; CAB76432.1;
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                                       l Similarity
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150 AA;
                                     Conservative
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(TremBLrel. 15, Last seq
(TremBLrel. 17, Last ann
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ilarity 100.0%;
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14425 MW;
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beta subdivision; Alcaligenaceae;
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beta subdivision; Alcaligenace
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Last sequence update)
Last annotation updat
                                                   Score 31;
Pred. No.
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Pred. No. 2e+02;
D; Mismatches (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
                                                                                                              C3AA820B3CEEAEC0 CRC64;
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                                   Mismatches
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                                 Indels
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72 GGFGP

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Q9K5H2

Q9K5H2

ID Q9K5H

AC Q9K5H

AC Q9K5H

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DT 01-OC

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RP SEQUE

RC STRAI

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RT Pertu

RL Infecto

DR CMBL;

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ID Q9K5H

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Best Local S
Matches 5
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Best Local Similarity
Matches 5; Conserv
                                                                                                                                                                                                         NON_TER
NON_TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9K5H2 PRELIMINARY; PRT; 155 AA.
Q9K5H2;
Q1-OCT-2000 (TrEMBLrel. 15, Created)
O1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
O1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
                                                                                                                                                                                                                                                                          Boursaux-Eude C., Guiso N.;

Polymorphism of Repeated Regions of Pertactin in Bordetella

Pertussis, Bordetella parapertussis, and Bordetella bronchiseptica.";

Infect. Immun. 68:4815-4817(2000).

EMBL; AJ250084; CAB76438.1; -.
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SEQUENCE
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O9K5HO;
O1-OCT-2000 (TrEMBLrel. 15, Created)
O1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
O1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
Pertactin (P.68) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *Polymorphism of Repeated Regions of Polymorphism of Repeated Regions of Pertussis, Bordetella parapertussis, Infect. Immun. 68:4815-4817(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN-BBCH;
MEDLINE-20359389; PubMed-10899896;
                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=CYGEO;
MEDLINE=20359389; PubMed=10899896;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bordetella bronchiseptica (Alcaligenes bronchisepticus) |
Bacteria, Proteobacteria, beta subdivision, Alcaligenaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bordetella bronchiseptica (Alcaligenes bronchisepticus).
Bacteria; Proteobacteria; beta subdivision; Alcaligenaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID-518;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bordetella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pertactin (P.68) (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=518;
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76
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les 5; Conserv
                              1 GGFGP 5
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GGFGP 80
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155 AA;
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154 AA;
                                                                                               100.0%; ilarity 100.0%; Conservative 0;
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14899 MW;
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100.0%; P
tive 0;
                                                                                               Score 31; DB
Pred. No. 2e+
); Mismatches
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                                                                                                                                                                                                      E8A5CF447F8CE43E CRC64;
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and Bordetella bronchiseptica.";
                                                                                                                        DB 2; Length 155; 2e+02;
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                                                                                                  Indels
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Search completed: March 17, 2003, 12:10:21

Job time : 28 secs



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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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                                                                                                                                                                                                                                                                     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            seq
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1: /cgn2_6/ptodata/2/paa/US

2: /cgn2_6/ptodata/2/paa/US

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Gapop 10.0 , Gapext 0.5
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/Cgn2_6/ptodata/2/paa/US089_COMB.pep:*
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                                                                                                                                                           Length DB
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24
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  PCT-US01-05614-625

G US-09-205-258-625

3 US-09-933-767-625

4 US-10-004-860-625

4 US-10-023-282-625

7 US-60-163-233-2462
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Sequence 625, App
Sequence 625, App
Sequence 625, App
Sequence 625, App
Sequence 625, App
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PCT-US01-05614-625
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ALIGNMENTS

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APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: PZ007PCT2
CURRENT APPLICATION NUMBER: PCT/US01/05614
CURRENT FILING DATE: 2001-02-21
PRIOR APPLICATION NUMBER: 60/184,836
PRIOR FILLING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/193,170
PRIOR FILLING DATE: 2000-03-29
NUMBER OF SEQ ID NOS: 1245
SOFTMARE: Patentin Ver. 2.0
SEQ ID NO 625
LENGTH: 26
TYPE: PRT
ORGANISM: Homo sapiens
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                                                      FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/
FILING DATE: 1997-06-06
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APPLICATION NUMBER: 60/048,883
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FILING DATE: 1997-06-06
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PRIOR APPLICATION NUMBER: 60/193,170
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: 09/205,258
PRIOR FILING DATE: 1998-12-04
PRIOR FILING DATE: 1998-12-04
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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,884
FILING DATE: 1997-06-06
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APPLICATION
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FILING DATE: 1997-06-06
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FILING DATE: 1997-06-06
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FILING DATE: 1998-07-15
APPLICATION NUMBER: 60/094,657
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APPLICATION NUMBER: 60/048,878
FILING DATE: 1997-06-06
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APPLICATION NUMBER: 60/048,962
FILING DATE: 1997-06-06
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FILING DATE: 1998-01-30
APPLICATION NUMBER: 60/085,925
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APPLICATION NUMBER: 60/048,901
FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,892
FILING DATE: 1997-06-06
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APPLICATION NUMBER: 60/048,972
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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,970
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APPLICATION NUMBER: 60/048,964
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NUMBER: 60/068,064
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Best Local Similarity
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US-10-004-860-625
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SEQ ID NO 625
LENGTH: 26
TYPE: PRT
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LENGTH: 26
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NUMBER OF SEQ ID NOS: 1245
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ER APPLICATION NUMBER: 60/048,885
ER FILING DATE: 1997-06-06
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APPLICATION NUMBER: 09/205,258
FILING DATE: 1998-12-04
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Young et al.
Young 207 Human Secreted Proteins
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Mismatches 0;
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                                          FILING DATE: 1998-07-30
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FILING DATE: 1998-07-15
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FILING DATE: 1997-06-06
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US-09-855-754-8
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TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN DRUG TARGET PROTEINS
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: CL00013
CURRENT APPLICATION NUMBER: US/60/163,233
CURRENT FILING DATE: 1999-11-02
NUMBER OF SEQ ID NOS: 4426
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2462
TYPE: Part
ORGANISM: Human
US-60-163-233-2462
                                                                                                                                                        SOFTWARE: PatentIn V
SEQ ID NO 8
LENGTH: 46
TYPE: PRT
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US-09-855-754-8
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US-60-163-233-2462
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; ORGANISM: Homo sapiens
US-10-023-282-625
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, FITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
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Best Local
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Pred. No. 3.9e+02;
                                                           Mismatches
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                                                                        4.6e+02;
                                                                                         DB 22;
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; NAME/KEY: SIGNAL
; LOCATION: (1)...(20)
; NAME/KEY: VARIANT
; LOCATION: (1)...(47)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-09-307-590-438
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US-09-708-427-74924
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CURRENT FILING DATE: 2000-11-09
NUMBER OF SEQ ID NOS: 85364
SOFTWARE: Patentin version 3.1
SEQ ID NO 74924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 74924, Appl GENERAL INFORMATION:
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Best Local
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NAME/KEY: misc_feature
LOCATION: 1.47

OTHER INFORMATION: Xaa is a:
NAME/KEY: misc_feature
LOCATION: 1.47
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APPLICANT: Gearing, Douglas A.
APPLICANT: Robison, Keith E.
TITLE OF INVENTION: WICLEIC ACID MOLECULES DERIVED FROM A
TITLE OF INVENTION: HUMAN LIVER LIBRARY
FILE REFERENCE: MLN98-12pA
CURRENT FILING DATE: 1999-05-07
EARLIER APPLICATION NUMBER: US/09/307,590
EARLIER APPLICATION NUMBER: 60/084,683
EARLIER FILING DATE: 1998-05-08
                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES TITLE OF INVENTION: THEREBY FILE REFERENCE: 2750-1243P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: N. ALEXANDROV et al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 756
SOFTWARE: FastSEQ for Windows Version 3.0
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TYPE: PRT
ORGANISM: Zea mays subsp.
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TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                   OTHER INFORMATION: Ceres Seq. ID 1946054
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Pred. No.
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Pred. No.
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TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SIGNAL
LOCATION: (1)...(20)
NAME/KEY: VARIANT
LOCATION: (1)...(47)
OTHER INFORMATION: Xaa = Any Amino Acid
US-09-855-548-438
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; TYPE: PRT
; ORGANISM: BC
US-09-855-754-7
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Best Local Similarity
Matches 5; Conserv
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LENGTH: 51
                                                                                                           Query Match
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                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: REGIONS OF PERTACTIN IN I TITLE OF INVENTION: BORDSTELLA PARAPERTUSSISTITLE OF INVENTION: BRONCHISEPTICA, THEIR USISTITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000
                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/206,969 PRIOR FILING DATE: 2000-05-25
                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/855,754
CURRENT FILING DATE: 2001-09-10
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
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CURRENT FILING DATE: 2001-65-15
PRIOR APPLICATION NUMBER: 09/307,590
PRIOR FILING DATE: 1999-05-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: NUCLEIC ACID MOLECULES DERIVED FROM A TITLE OF INVENTION: HUMAN LIVER LIBRARY FILE REFERENCE: MLN98-12pA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/084,683 PRIOR FILING DATE: 1998-05-08
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                                                                                                                                                                                                                                                                NUMBER OF SEQ
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28 GGFGP 32
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Holtzman, Douglas A.
Robison, Keith E.
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ilarity 100.0%;
Conservative (
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Pred. No. 4.7
0; Mismatches
                                                                   Score 31; DB 22;
Pred. No. 5.1e+02;
); Mismatches 0;
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US-09-855-754-10
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                                                                    APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: 03495-0206-00000 COMPOSITIONS CURRENT APPLICATION NUMBER: US/09/855,754 PRIOR APPLICATION: 2001-09-10 PRIOR APPLICATION NUMBER: US/09/855,754 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 PRIOR APPLICATION NUMBER: 2001-09-10 P
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
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TYPE: PRT
TYPE: Bordetella bronchiseptica
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 24
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     OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF
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Best Local Similarity
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US-09-855-754-12
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SOFTWARE: PatentIn Ver. 2.1
SEQ_ID_NO_12
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Matches 5; Conserv
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LENGTH: 56
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APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYBEFTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
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CURRENT FILING DATE: 2001-09-10
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PRIOR FILING DATE: 2000-05-25
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	ς.	606, App	51474, A	9612, Ap	64737, A	62388, A	15550, A	16290, A	15923, A	62028, A	94940, A	94939, A	94932, A	94940, A	94939, A	94932, A	418, App	12427, A	94938, A

ALIGNMENTS

; LENGTH: 46 ; TYPE: PRT ; ORGANIZM: Bordetella bronchiseptica US-09-855-754B-8 US-09-855-754B-8 SOFTWARE: 1 Sequence 8, Applicat GENERAL INFORMATION: Query Match Best Local TITLE OF INVENTION: POLYPÉPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PETFACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOZENIC COMPOSITIONS FILE REFERENCE: 03495-0206-00000 CURRENT APPLICATION NUMBER: US/09/855,754B CURRENT FILING DATE: 2001-05-16 APPLICANT: BOURSAUX-EUDE, CAROLINE APPLICANT: GUISO-MACLOUF, NICOLE PRIOR APPLICATION NUMBER: 60/206,969 PRIOR FILING DATE: 2000-05-25 NUMBER OF SEQ ID NOS: 25 PatentIn Ver. 2.1 Application US/09855754B 100.0%; Score 31; 100.0%; Pred. No. DB 5; Length 46;

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Similarity 5; Conserv

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US-09-855-754B-7

Sequence 7, Application US/09855754B GENERAL INFORMATION:

APPLICANT: BOURSACX-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OR INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BRONCHISSETICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: HMONCHISSETICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: 05/09/855,754B
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25

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                                                 SOFTWALL 56
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ORGANISM: Bordetella bronchiseptica -09-855-754B-9
                                                                                                                                                       APPLICANT: BOUSAGN-EUDE, CAROLINE
APPLICANT: BOUSAGN-EUDE, CAROLINE
APPLICANT: GUISO-MACLOUF, NICOLE
TITLE OF INVENTION: POLYPEPFILES CONTAINING POLYMORPHISMS OF THE REPEATED
TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS,
TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA
TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN
TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
FILE REFERENCE: 03495-0206-00000
CURRENT FILLING DATE: 2001-05-16
CURRENT FILLING DATE: 2001-05-16
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                                                                                                        PRIOR APPLICATION NUMBER: 60/206,969
PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
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LENGTH: 51
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SOFTWARE: PatentIn Ver. 2.1
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                                      TYPE: PRT
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FILE REFERENCE: 03495-0206-00000
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Query Match
Best Local Similarity
5; Conserve
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; ORGANISM: Bordetella bronchiseptica
US-09-855-754B-12
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SEQ ID NO 10
LENGTH: 56
TYPE: PRT
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                                                                                                                                                                                              PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.1
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FILE REFERENCE: 03495-0206-00000
CURRENT APPLICATION NUMBER: US/09/855,754B
PRIOR APPLICATE: 2001-05-16
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BONDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
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PRIOR FILING DATE: 2000-05-25
NUMBER OF SEQ ID NOS: 25
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                                                                                                                                                           LENGTH: 56
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                      Conservative
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US-09-724-676-86569
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Best Local Similarity
~~*rhes 5; Conserve
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US-09-855-754B-11
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                                                                                                         Sequence 86569, Appl GENERAL INFORMATION:
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GENERAL INFORMATION:
APPLICANT: Compugen
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LENGTH: 69
TYPE: PRT
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Best Local S
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APPLICANT: Compugen LTD TITLE OF INVENTION: Variants of alternative splicing FILE REFERENCE: 129181.4 Compugen CURRENT APPLICATION NUMBER: US/09/724,676A CURRENT FILING DATE: 2000-11-28 NUMBER OF SEQ ID NOS: 97222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: POLYPEPTIDES CONTAINING POLYMORPHISMS OF THE REPEATED TITLE OF INVENTION: REGIONS OF PERTACTIN IN BORDETELLA PERTUSSIS, TITLE OF INVENTION: BORDETELLA PARAPERTUSSIS, AND BORDETELLA TITLE OF INVENTION: BRONCHISEPTICA, THEIR USE IN DIAGNOSTICS, AND IN TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS
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CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 97222
SOFTWARE: Patentin version 3.2
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TITLE OF INVENTION: Variants of alternative splicing
FILE REFERENCE: 129181.4 Compugen
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PCT-US02-32727-7133
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                                                              APPLICANT
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INVENTION: Compositions 
ERENCE: 210121.514C1
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Zhang, Yanni
Wang, Siqing
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Jones, Robert
Carter, Darrick
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Jen, Shyian
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Bhatia, Ajay
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Jones, Robert
                      Barth, Brenda
Douglass,John
                                             Carter, Darrick
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Bhatia, Ajay
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REFERENCE:

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APPLICANT: Carter, Darrick
APPLICANT: Barth, Brenda
APPLICANT: Douglass, John
FILE REFERENCE: 210121.514C1
CURRENT APPLICATION NUMBER: PCT/US02/32727
CURRENT FILING DATE: 2002-10-11
NUMBER OF SEQ ID NOS: 30992
SEQ ID NO 4050
LENGTH: 80
TYPE: PRT
ORGANICO.
; ORGANISM: Propioni acnes
PCT-US02-32727-4050
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; ORGANISM: Propioni acnes
US-10-057-498-7133
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APPLICANT: Persing, David
TITLE OF INVENTION: Compositions and Methods
FILE REFERENCE: 210121.514
CURRENT APPLICATION NUMBER: US/10/057,498
CURRENT FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 29212
SEQ ID NO 7133
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SEQ ID NO 7133
LENGTH: 74
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CURRENT FILING DATE: 2003-01-29
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US-10-057-498-4050
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CURRENT FILING DATE: 2003-01-29
NUMBER OF SEQ ID NOS: 30992
SEQ ID NO 4050
LENGTH: 80
TYPE: PRT
ORGANISM: Propioni acnes
US-09-978-825-4050
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US-09-978-825-4050
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SEQ ID NO 4050
LENGTH: 80
TYPE: PRT
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APPLICANT: Skeiky, Yasir
APPLICANT: Skeiky, Yasir
APPLICANT: Persing, David
TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of
FILE REFERENCE: 210121.514
CURRENT FILING DATE: 2001-04-20
CURRENT FILING DATE: 2001-04-20
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TITLE OF INVENTION: Compositions and Methods for the Therapy and Diagnosis of Acne
FILE REFERENCE: 210121.514C1
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Wang, Siqing
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Bhatia, Ajay
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Pred. No. 83;
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Pred. No.
                   Mismatches
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                                            Length 80
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                   Indels
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                  0
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